

Question 1 [25 marks]

0: $\frac{1}{4} - \frac{4}{5} = \frac{-11}{20}$

1: $\frac{4}{5} - \frac{5}{2} = -1\frac{7}{10}$

2: $\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$

3: $\frac{1}{5} - \frac{5}{4} = -1\frac{1}{20}$

4: $\frac{2}{4} - \frac{4}{4} = \frac{-1}{2}$

5: $\frac{1}{4} - \frac{5}{5} = \frac{-3}{4}$

6: $\frac{1}{5} - \frac{5}{1} = -4\frac{4}{5}$

7: $\frac{1}{3} - \frac{4}{4} = \frac{-2}{3}$

8: $\frac{3}{5} - \frac{5}{4} = \frac{-13}{20}$

9: $\frac{3}{4} - \frac{5}{4} = \frac{-1}{2}$

10: $\frac{1}{1} - \frac{3}{4} = \frac{1}{4}$

11: $\frac{5}{2} - \frac{1}{5} = 2\frac{3}{10}$

12: $\frac{1}{1} - \frac{1}{1} = 0$

13: $\frac{5}{5} - \frac{1}{3} = \frac{2}{3}$

14: $\frac{1}{3} - \frac{2}{5} = \frac{-1}{15}$

15: $\frac{1}{3} - \frac{1}{4} = \frac{1}{12}$

16: $\frac{2}{1} - \frac{1}{2} = 1\frac{1}{2}$

17: $\frac{5}{4} - \frac{2}{4} = \frac{3}{4}$

18: $\frac{2}{3} - \frac{4}{3} = \frac{-2}{3}$

19: $\frac{3}{2} - \frac{2}{5} = 1\frac{1}{10}$

20: $\frac{2}{5} - \frac{1}{1} = \frac{-3}{5}$

21: $\frac{1}{4} - \frac{5}{4} = -1$

22: $\frac{4}{5} - \frac{2}{3} = \frac{2}{15}$

23: $\frac{1}{4} - \frac{1}{3} = \frac{-1}{12}$

24: $\frac{1}{4} - \frac{3}{2} = -1\frac{1}{4}$

25: $\frac{1}{4} - \frac{3}{1} = -2\frac{3}{4}$

fracsub_1to5_1to5_1to5_1to5

Question 2 [25 marks]

0: $\frac{1}{4} - \frac{1}{1} = \frac{-3}{4}$

1: $\frac{5}{5} - \frac{5}{1} = -4$

2: $\frac{3}{3} - \frac{4}{3} = \frac{-1}{3}$

3: $\frac{3}{3} - \frac{4}{4} = 0$

4: $\frac{5}{2} - \frac{4}{2} = \frac{1}{2}$

5: $\frac{3}{5} - \frac{4}{5} = \frac{-1}{5}$

6: $\frac{2}{5} - \frac{4}{2} = -1\frac{3}{5}$

7: $\frac{5}{1} - \frac{2}{3} = 4\frac{1}{3}$

8: $\frac{3}{2} - \frac{4}{5} = \frac{7}{10}$

9: $\frac{4}{2} - \frac{2}{2} = 1$

10: $\frac{4}{3} - \frac{4}{4} = \frac{1}{3}$

11: $\frac{1}{1} - \frac{5}{1} = -4$

12: $\frac{4}{4} - \frac{5}{5} = 0$

13: $\frac{2}{3} - \frac{2}{1} = -1\frac{1}{3}$

14: $\frac{4}{1} - \frac{2}{5} = 3\frac{3}{5}$

15: $\frac{4}{1} - \frac{2}{4} = 3\frac{1}{2}$

16: $\frac{4}{1} - \frac{4}{4} = 3$

17: $\frac{1}{2} - \frac{4}{4} = \frac{-1}{2}$

18: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

19: $\frac{1}{2} - \frac{5}{2} = -2$

20: $\frac{5}{5} - \frac{5}{5} = 0$

21: $\frac{3}{3} - \frac{1}{5} = \frac{4}{5}$

22: $\frac{1}{2} - \frac{3}{5} = \frac{-1}{10}$

23: $\frac{5}{1} - \frac{2}{4} = 4\frac{1}{2}$

24: $\frac{1}{1} - \frac{1}{1} = 0$

25: $\frac{3}{3} - \frac{5}{4} = \frac{-1}{4}$

fracsub_1to5_1to5_1to5_1to5

Question 3 [25 marks]

0: $\frac{4}{1} - \frac{3}{4} = 3\frac{1}{4}$

1: $\frac{3}{5} - \frac{4}{2} = -1\frac{2}{5}$

2: $\frac{4}{3} - \frac{3}{2} = \frac{-1}{6}$

3: $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$

4: $\frac{5}{1} - \frac{4}{1} = 1$

5: $\frac{5}{4} - \frac{5}{5} = \frac{1}{4}$

6: $\frac{4}{1} - \frac{5}{5} = 3$

7: $\frac{4}{1} - \frac{3}{3} = 3$

8: $\frac{1}{3} - \frac{2}{3} = \frac{-1}{3}$

9: $\frac{5}{5} - \frac{4}{5} = \frac{1}{5}$

10: $\frac{5}{2} - \frac{3}{1} = \frac{-1}{2}$

11: $\frac{1}{1} - \frac{1}{5} = \frac{4}{5}$

12: $\frac{2}{3} - \frac{5}{3} = -1$

13: $\frac{1}{1} - \frac{2}{5} = \frac{3}{5}$

14: $\frac{5}{3} - \frac{3}{2} = \frac{1}{6}$

15: $\frac{2}{1} - \frac{1}{3} = 1\frac{2}{3}$

16: $\frac{4}{2} - \frac{2}{3} = 1\frac{1}{3}$

17: $\frac{2}{3} - \frac{4}{3} = \frac{-2}{3}$

18: $\frac{4}{3} - \frac{5}{1} = -3\frac{2}{3}$

19: $\frac{4}{4} - \frac{2}{4} = \frac{1}{2}$

20: $\frac{3}{4} - \frac{3}{2} = \frac{-3}{4}$

21: $\frac{2}{3} - \frac{1}{1} = \frac{-1}{3}$

22: $\frac{4}{3} - \frac{4}{4} = \frac{1}{3}$

23: $\frac{3}{3} - \frac{4}{5} = \frac{1}{5}$

24: $\frac{1}{2} - \frac{4}{3} = \frac{-5}{6}$

25: $\frac{1}{1} - \frac{4}{4} = 0$

fracsub_1to5_1to5_1to5_1to5

Question 4 [25 marks]

0: $\frac{3}{4} - \frac{1}{1} = \frac{-1}{4}$

1: $\frac{1}{5} - \frac{5}{4} = -1\frac{1}{20}$

2: $\frac{2}{2} - \frac{3}{2} = \frac{-1}{2}$

3: $\frac{1}{3} - \frac{1}{5} = \frac{2}{15}$

4: $\frac{3}{3} - \frac{2}{4} = \frac{1}{2}$

5: $\frac{1}{3} - \frac{1}{1} = \frac{-2}{3}$

6: $\frac{4}{1} - \frac{4}{3} = 2\frac{2}{3}$

7: $\frac{4}{4} - \frac{1}{4} = \frac{3}{4}$

8: $\frac{5}{2} - \frac{3}{5} = 1\frac{9}{10}$

9: $\frac{5}{2} - \frac{4}{5} = 1\frac{7}{10}$

10: $\frac{4}{3} - \frac{3}{5} = \frac{11}{15}$

11: $\frac{4}{3} - \frac{4}{2} = \frac{-2}{3}$

12: $\frac{1}{5} - \frac{5}{1} = -4\frac{4}{5}$

13: $\frac{3}{3} - \frac{5}{5} = 0$

14: $\frac{3}{1} - \frac{5}{3} = 1\frac{1}{3}$

15: $\frac{4}{3} - \frac{3}{2} = \frac{-1}{6}$

16: $\frac{4}{5} - \frac{4}{4} = \frac{-1}{5}$

17: $\frac{3}{5} - \frac{3}{3} = \frac{-2}{5}$

18: $\frac{4}{3} - \frac{5}{1} = -3\frac{2}{3}$

19: $\frac{5}{4} - \frac{1}{5} = 1\frac{1}{20}$

20: $\frac{2}{2} - \frac{5}{1} = -4$

21: $\frac{1}{2} - \frac{4}{3} = \frac{-5}{6}$

22: $\frac{4}{5} - \frac{4}{5} = 0$

23: $\frac{5}{4} - \frac{1}{1} = \frac{1}{4}$

24: $\frac{1}{4} - \frac{1}{4} = 0$

25: $\frac{1}{2} - \frac{2}{1} = -1\frac{1}{2}$

fracsub_1to5_1to5_1to5_1to5

Question 5 [25 marks]

0: $\frac{2}{5} - \frac{2}{4} = \frac{-1}{10}$

1: $\frac{1}{2} - \frac{2}{3} = \frac{-1}{6}$

2: $\frac{4}{4} - \frac{2}{4} = \frac{1}{2}$

3: $\frac{3}{3} - \frac{2}{1} = -1$

4: $\frac{4}{4} - \frac{2}{3} = \frac{1}{3}$

5: $\frac{5}{5} - \frac{3}{2} = \frac{-1}{2}$

6: $\frac{4}{2} - \frac{4}{4} = 1$

7: $\frac{5}{4} - \frac{1}{2} = \frac{3}{4}$

8: $\frac{2}{3} - \frac{5}{3} = -1$

9: $\frac{2}{3} - \frac{3}{3} = \frac{-1}{3}$

10: $\frac{2}{1} - \frac{5}{5} = 1$

11: $\frac{1}{1} - \frac{3}{2} = \frac{-1}{2}$

12: $\frac{1}{4} - \frac{4}{3} = -1\frac{1}{12}$

13: $\frac{4}{4} - \frac{4}{1} = -3$

14: $\frac{2}{2} - \frac{4}{5} = \frac{1}{5}$

15: $\frac{2}{4} - \frac{2}{2} = \frac{-1}{2}$

16: $\frac{2}{2} - \frac{2}{5} = \frac{3}{5}$

17: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

18: $\frac{1}{5} - \frac{5}{1} = -4\frac{4}{5}$

19: $\frac{4}{1} - \frac{2}{2} = 3$

20: $\frac{3}{1} - \frac{1}{4} = 2\frac{3}{4}$

21: $\frac{3}{4} - \frac{2}{3} = \frac{1}{12}$

22: $\frac{1}{4} - \frac{4}{2} = -1\frac{3}{4}$

23: $\frac{5}{1} - \frac{1}{5} = 4\frac{4}{5}$

24: $\frac{1}{1} - \frac{1}{5} = \frac{4}{5}$

25: $\frac{5}{3} - \frac{1}{3} = 1\frac{1}{3}$

fracsub_1to5_1to5_1to5_1to5

Question 6 [25 marks]

0: $\frac{3}{5} - \frac{5}{1} = -4\frac{2}{5}$

1: $\frac{5}{4} - \frac{2}{2} = \frac{1}{4}$

2: $\frac{4}{1} - \frac{2}{5} = 3\frac{3}{5}$

3: $\frac{5}{2} - \frac{3}{3} = 1\frac{1}{2}$

4: $\frac{1}{1} - \frac{3}{5} = \frac{2}{5}$

5: $\frac{1}{4} - \frac{1}{1} = \frac{-3}{4}$

6: $\frac{2}{1} - \frac{3}{2} = \frac{1}{2}$

7: $\frac{3}{1} - \frac{2}{1} = 1$

8: $\frac{1}{4} - \frac{1}{4} = 0$

9: $\frac{1}{5} - \frac{3}{5} = \frac{-2}{5}$

10: $\frac{2}{4} - \frac{3}{4} = \frac{-1}{4}$

11: $\frac{2}{3} - \frac{1}{5} = \frac{7}{15}$

12: $\frac{4}{5} - \frac{3}{2} = \frac{-7}{10}$

13: $\frac{3}{1} - \frac{2}{3} = 2\frac{1}{3}$

14: $\frac{4}{1} - \frac{5}{5} = 3$

15: $\frac{1}{2} - \frac{5}{5} = \frac{-1}{2}$

16: $\frac{1}{5} - \frac{1}{3} = \frac{-2}{15}$

17: $\frac{3}{5} - \frac{3}{5} = 0$

18: $\frac{2}{5} - \frac{3}{1} = -2\frac{3}{5}$

19: $\frac{2}{5} - \frac{5}{2} = -2\frac{1}{10}$

20: $\frac{2}{5} - \frac{2}{4} = \frac{-1}{10}$

21: $\frac{4}{2} - \frac{2}{3} = 1\frac{1}{3}$

22: $\frac{2}{4} - \frac{5}{5} = \frac{-1}{2}$

23: $\frac{1}{4} - \frac{5}{1} = -4\frac{3}{4}$

24: $\frac{5}{1} - \frac{4}{4} = 4$

25: $\frac{4}{1} - \frac{3}{4} = 3\frac{1}{4}$

fracsub_1to5_1to5_1to5_1to5

Question 7 [25 marks]

0: $\frac{1}{3} - \frac{3}{3} = \frac{-2}{3}$

1: $\frac{2}{5} - \frac{4}{3} = \frac{-14}{15}$

2: $\frac{1}{3} - \frac{4}{3} = -1$

3: $\frac{1}{4} - \frac{2}{5} = \frac{-3}{20}$

4: $\frac{1}{2} - \frac{1}{2} = 0$

5: $\frac{3}{4} - \frac{4}{2} = -1\frac{1}{4}$

6: $\frac{2}{4} - \frac{5}{4} = \frac{-3}{4}$

7: $\frac{1}{3} - \frac{1}{2} = \frac{-1}{6}$

8: $\frac{1}{1} - \frac{3}{2} = \frac{-1}{2}$

9: $\frac{2}{2} - \frac{3}{5} = \frac{2}{5}$

10: $\frac{4}{2} - \frac{3}{5} = 1\frac{2}{5}$

11: $\frac{1}{2} - \frac{1}{5} = \frac{3}{10}$

12: $\frac{5}{3} - \frac{5}{3} = 0$

13: $\frac{4}{2} - \frac{3}{4} = 1\frac{1}{4}$

14: $\frac{3}{3} - \frac{5}{1} = -4$

15: $\frac{1}{3} - \frac{4}{2} = -1\frac{2}{3}$

16: $\frac{2}{3} - \frac{4}{4} = \frac{-1}{3}$

17: $\frac{4}{2} - \frac{1}{2} = 1\frac{1}{2}$

18: $\frac{4}{4} - \frac{1}{3} = \frac{2}{3}$

19: $\frac{4}{1} - \frac{2}{2} = 3$

20: $\frac{1}{5} - \frac{5}{3} = -1\frac{7}{15}$

21: $\frac{1}{1} - \frac{1}{4} = \frac{3}{4}$

22: $\frac{3}{4} - \frac{4}{5} = \frac{-1}{20}$

23: $\frac{4}{4} - \frac{1}{4} = \frac{3}{4}$

24: $\frac{2}{3} - \frac{4}{5} = \frac{-2}{15}$

25: $\frac{5}{3} - \frac{4}{3} = \frac{1}{3}$

fracsub_1to5_1to5_1to5_1to5

Question 8 [25 marks]

0: $\frac{1}{2} - \frac{2}{3} = \frac{-1}{6}$

1: $\frac{2}{4} - \frac{1}{5} = \frac{3}{10}$

2: $\frac{5}{5} - \frac{4}{1} = -3$

3: $\frac{1}{4} - \frac{2}{2} = \frac{-3}{4}$

4: $\frac{3}{4} - \frac{4}{4} = \frac{-1}{4}$

5: $\frac{3}{2} - \frac{4}{2} = \frac{-1}{2}$

6: $\frac{3}{3} - \frac{2}{5} = \frac{3}{5}$

7: $\frac{1}{1} - \frac{1}{1} = 0$

8: $\frac{2}{2} - \frac{2}{2} = 0$

9: $\frac{4}{3} - \frac{2}{4} = \frac{5}{6}$

10: $\frac{4}{2} - \frac{1}{4} = 1\frac{3}{4}$

11: $\frac{4}{1} - \frac{2}{4} = 3\frac{1}{2}$

12: $\frac{1}{5} - \frac{1}{5} = 0$

13: $\frac{1}{4} - \frac{2}{1} = -1\frac{3}{4}$

14: $\frac{4}{4} - \frac{2}{3} = \frac{1}{3}$

15: $\frac{5}{4} - \frac{1}{4} = 1$

16: $\frac{2}{3} - \frac{5}{4} = \frac{-7}{12}$

17: $\frac{1}{4} - \frac{4}{5} = \frac{-11}{20}$

18: $\frac{5}{4} - \frac{2}{5} = \frac{17}{20}$

19: $\frac{3}{3} - \frac{2}{2} = 0$

20: $\frac{4}{2} - \frac{3}{4} = 1\frac{1}{4}$

21: $\frac{3}{5} - \frac{3}{4} = \frac{-3}{20}$

22: $\frac{4}{5} - \frac{4}{3} = \frac{-8}{15}$

23: $\frac{1}{1} - \frac{1}{1} = 0$

24: $\frac{1}{3} - \frac{1}{3} = 0$

25: $\frac{2}{4} - \frac{2}{2} = \frac{-1}{2}$

fracsub_1to5_1to5_1to5_1to5

Question 9 [25 marks]

0: $\frac{9}{7} - \frac{8}{3} = -1\frac{8}{21}$

1: $\frac{8}{6} - \frac{2}{3} = \frac{2}{3}$

2: $\frac{5}{7} - \frac{6}{10} = \frac{4}{35}$

3: $\frac{2}{3} - \frac{2}{1} = -1\frac{1}{3}$

4: $\frac{8}{1} - \frac{10}{9} = 6\frac{8}{9}$

5: $\frac{8}{8} - \frac{6}{8} = \frac{1}{4}$

6: $\frac{3}{3} - \frac{8}{10} = \frac{1}{5}$

7: $\frac{2}{1} - \frac{10}{6} = \frac{1}{3}$

8: $\frac{2}{7} - \frac{2}{8} = \frac{1}{28}$

9: $\frac{5}{8} - \frac{2}{4} = \frac{1}{8}$

10: $\frac{4}{3} - \frac{1}{9} = 1\frac{2}{9}$

11: $\frac{8}{7} - \frac{7}{6} = \frac{-1}{42}$

12: $\frac{10}{5} - \frac{2}{1} = 0$

13: $\frac{7}{6} - \frac{10}{3} = -2\frac{1}{6}$

14: $\frac{6}{8} - \frac{1}{2} = \frac{1}{4}$

15: $\frac{10}{1} - \frac{8}{3} = 7\frac{1}{3}$

16: $\frac{9}{8} - \frac{9}{1} = -7\frac{7}{8}$

17: $\frac{1}{5} - \frac{9}{6} = -1\frac{3}{10}$

18: $\frac{10}{3} - \frac{4}{4} = 2\frac{1}{3}$

19: $\frac{6}{10} - \frac{5}{10} = \frac{1}{10}$

20: $\frac{7}{1} - \frac{10}{10} = 6$

21: $\frac{9}{3} - \frac{9}{5} = 1\frac{1}{5}$

22: $\frac{3}{3} - \frac{9}{4} = -1\frac{1}{4}$

23: $\frac{6}{2} - \frac{2}{1} = 1$

24: $\frac{7}{7} - \frac{8}{4} = -1$

25: $\frac{6}{7} - \frac{4}{5} = \frac{2}{35}$

Question 10 [25 marks]

0: $\frac{6}{6} - \frac{4}{5} = \frac{1}{5}$

1: $\frac{5}{7} - \frac{5}{6} = \frac{-5}{42}$

2: $\frac{2}{4} - \frac{5}{1} = -4\frac{1}{2}$

3: $\frac{9}{10} - \frac{9}{5} = \frac{-9}{10}$

4: $\frac{7}{7} - \frac{7}{4} = \frac{-3}{4}$

5: $\frac{7}{9} - \frac{9}{2} = -3\frac{13}{18}$

6: $\frac{2}{10} - \frac{7}{9} = \frac{-26}{45}$

7: $\frac{2}{10} - \frac{7}{10} = \frac{-1}{2}$

8: $\frac{2}{2} - \frac{7}{6} = \frac{-1}{6}$

9: $\frac{9}{1} - \frac{9}{1} = 0$

10: $\frac{4}{3} - \frac{10}{6} = \frac{-1}{3}$

11: $\frac{10}{4} - \frac{10}{4} = 0$

12: $\frac{4}{10} - \frac{6}{8} = \frac{-7}{20}$

13: $\frac{8}{9} - \frac{7}{5} = \frac{-23}{45}$

14: $\frac{1}{8} - \frac{8}{5} = -1\frac{19}{40}$

15: $\frac{2}{1} - \frac{5}{6} = 1\frac{1}{6}$

16: $\frac{10}{1} - \frac{10}{3} = 6\frac{2}{3}$

17: $\frac{7}{5} - \frac{2}{1} = \frac{-3}{5}$

18: $\frac{6}{2} - \frac{10}{1} = -7$

19: $\frac{7}{10} - \frac{2}{6} = \frac{11}{30}$

20: $\frac{4}{3} - \frac{3}{3} = \frac{1}{3}$

21: $\frac{3}{3} - \frac{6}{1} = -5$

22: $\frac{7}{6} - \frac{1}{7} = 1\frac{1}{42}$

23: $\frac{5}{5} - \frac{7}{10} = \frac{3}{10}$

24: $\frac{2}{3} - \frac{1}{7} = \frac{11}{21}$

25: $\frac{7}{4} - \frac{8}{6} = \frac{5}{12}$

fracsub_1to10_1to10_1to10_1to10

fracsub_1to10_1to10_1to10_1to10

Question 11 [25 marks]

0: $\frac{8}{9} - \frac{7}{10} = \frac{17}{90}$

1: $\frac{9}{7} - \frac{10}{8} = \frac{1}{28}$

2: $\frac{9}{9} - \frac{8}{8} = 0$

3: $\frac{9}{9} - \frac{2}{3} = \frac{1}{3}$

4: $\frac{6}{4} - \frac{2}{2} = \frac{1}{2}$

5: $\frac{4}{9} - \frac{8}{7} = \frac{-44}{63}$

6: $\frac{6}{1} - \frac{2}{10} = 5\frac{4}{5}$

7: $\frac{7}{7} - \frac{10}{10} = 0$

8: $\frac{7}{10} - \frac{4}{9} = \frac{23}{90}$

9: $\frac{2}{2} - \frac{3}{6} = \frac{1}{2}$

10: $\frac{4}{10} - \frac{8}{8} = \frac{-3}{5}$

11: $\frac{5}{2} - \frac{5}{10} = 2$

12: $\frac{3}{8} - \frac{1}{3} = \frac{1}{24}$

13: $\frac{4}{4} - \frac{10}{1} = -9$

14: $\frac{8}{6} - \frac{2}{2} = \frac{1}{3}$

15: $\frac{3}{4} - \frac{6}{6} = \frac{-1}{4}$

16: $\frac{5}{6} - \frac{3}{8} = \frac{11}{24}$

17: $\frac{2}{8} - \frac{4}{6} = \frac{-5}{12}$

18: $\frac{8}{9} - \frac{4}{7} = \frac{20}{63}$

19: $\frac{6}{1} - \frac{10}{2} = 1$

20: $\frac{9}{9} - \frac{9}{8} = \frac{-1}{8}$

21: $\frac{8}{2} - \frac{10}{7} = 2\frac{4}{7}$

22: $\frac{2}{4} - \frac{8}{9} = \frac{-7}{18}$

23: $\frac{10}{7} - \frac{1}{6} = 1\frac{11}{42}$

24: $\frac{4}{9} - \frac{5}{5} = \frac{-5}{9}$

25: $\frac{8}{10} - \frac{4}{9} = \frac{16}{45}$

fracsub_1to10_1to10_1to10_1to10

Question 12 [25 marks]

0: $\frac{9}{9} - \frac{10}{7} = \frac{-3}{7}$

1: $\frac{6}{3} - \frac{7}{2} = -1\frac{1}{2}$

2: $\frac{3}{2} - \frac{3}{5} = \frac{9}{10}$

3: $\frac{5}{10} - \frac{4}{6} = \frac{-1}{6}$

4: $\frac{2}{4} - \frac{10}{1} = -9\frac{1}{2}$

5: $\frac{2}{3} - \frac{2}{1} = -1\frac{1}{3}$

6: $\frac{1}{5} - \frac{10}{9} = \frac{-41}{45}$

7: $\frac{9}{10} - \frac{2}{8} = \frac{13}{20}$

8: $\frac{2}{2} - \frac{5}{8} = \frac{3}{8}$

9: $\frac{10}{1} - \frac{1}{3} = 9\frac{2}{3}$

10: $\frac{9}{1} - \frac{3}{5} = 8\frac{2}{5}$

11: $\frac{1}{9} - \frac{6}{3} = -1\frac{8}{9}$

12: $\frac{9}{2} - \frac{5}{9} = 3\frac{17}{18}$

13: $\frac{9}{4} - \frac{3}{4} = 1\frac{1}{2}$

14: $\frac{5}{7} - \frac{5}{4} = \frac{-15}{28}$

15: $\frac{9}{4} - \frac{7}{2} = -1\frac{1}{4}$

16: $\frac{1}{6} - \frac{5}{9} = \frac{-7}{18}$

17: $\frac{4}{10} - \frac{5}{4} = \frac{-17}{20}$

18: $\frac{1}{8} - \frac{9}{10} = \frac{-31}{40}$

19: $\frac{9}{6} - \frac{1}{5} = 1\frac{3}{10}$

20: $\frac{6}{10} - \frac{7}{3} = -1\frac{11}{15}$

21: $\frac{4}{9} - \frac{6}{7} = \frac{-26}{63}$

22: $\frac{6}{7} - \frac{2}{7} = \frac{4}{7}$

23: $\frac{5}{5} - \frac{2}{2} = 0$

24: $\frac{3}{8} - \frac{7}{4} = -1\frac{3}{8}$

25: $\frac{6}{4} - \frac{8}{3} = -1\frac{1}{6}$

fracsub_1to10_1to10_1to10_1to10

Question 13 [25 marks]

0: $\frac{6}{3} - \frac{2}{4} = 1\frac{1}{2}$

1: $\frac{4}{2} - \frac{9}{10} = 1\frac{1}{10}$

2: $\frac{8}{3} - \frac{8}{5} = 1\frac{1}{15}$

3: $\frac{1}{7} - \frac{7}{5} = -1\frac{9}{35}$

4: $\frac{6}{2} - \frac{8}{3} = \frac{1}{3}$

5: $\frac{8}{1} - \frac{3}{10} = 7\frac{7}{10}$

6: $\frac{6}{8} - \frac{5}{9} = \frac{7}{36}$

7: $\frac{7}{4} - \frac{1}{2} = 1\frac{1}{4}$

8: $\frac{8}{4} - \frac{4}{5} = 1\frac{1}{5}$

9: $\frac{2}{3} - \frac{1}{6} = \frac{1}{2}$

10: $\frac{7}{4} - \frac{9}{6} = \frac{1}{4}$

11: $\frac{8}{10} - \frac{9}{7} = \frac{-17}{35}$

12: $\frac{8}{2} - \frac{3}{7} = 3\frac{4}{7}$

13: $\frac{2}{7} - \frac{10}{6} = -1\frac{8}{21}$

14: $\frac{5}{2} - \frac{10}{5} = \frac{1}{2}$

15: $\frac{8}{6} - \frac{6}{10} = \frac{11}{15}$

16: $\frac{6}{3} - \frac{7}{1} = -5$

17: $\frac{10}{10} - \frac{10}{5} = -1$

18: $\frac{2}{7} - \frac{10}{1} = -9\frac{5}{7}$

19: $\frac{8}{2} - \frac{6}{8} = 3\frac{1}{4}$

20: $\frac{1}{10} - \frac{5}{1} = -4\frac{9}{10}$

21: $\frac{6}{1} - \frac{1}{3} = 5\frac{2}{3}$

22: $\frac{5}{3} - \frac{10}{4} = \frac{-5}{6}$

23: $\frac{2}{6} - \frac{5}{10} = \frac{-1}{6}$

24: $\frac{8}{3} - \frac{1}{7} = 2\frac{11}{21}$

25: $\frac{4}{10} - \frac{10}{9} = \frac{-32}{45}$

Question 14 [25 marks]

0: $\frac{1}{1} - \frac{5}{4} = \frac{-1}{4}$

1: $\frac{10}{5} - \frac{5}{4} = \frac{3}{4}$

2: $\frac{9}{7} - \frac{7}{5} = \frac{-4}{35}$

3: $\frac{1}{4} - \frac{4}{5} = \frac{-11}{20}$

4: $\frac{4}{5} - \frac{1}{8} = \frac{27}{40}$

5: $\frac{1}{7} - \frac{6}{4} = -1\frac{5}{14}$

6: $\frac{4}{8} - \frac{5}{3} = -1\frac{1}{6}$

7: $\frac{9}{7} - \frac{1}{2} = \frac{11}{14}$

8: $\frac{7}{10} - \frac{8}{5} = \frac{-9}{10}$

9: $\frac{2}{4} - \frac{2}{4} = 0$

10: $\frac{9}{4} - \frac{6}{6} = 1\frac{1}{4}$

11: $\frac{2}{4} - \frac{8}{4} = -1\frac{1}{2}$

12: $\frac{7}{7} - \frac{7}{4} = \frac{-3}{4}$

13: $\frac{1}{5} - \frac{3}{4} = \frac{-11}{20}$

14: $\frac{6}{7} - \frac{5}{8} = \frac{13}{56}$

15: $\frac{9}{8} - \frac{1}{9} = 1\frac{1}{72}$

16: $\frac{1}{3} - \frac{5}{2} = -2\frac{1}{6}$

17: $\frac{10}{7} - \frac{4}{4} = \frac{3}{7}$

18: $\frac{6}{9} - \frac{9}{7} = \frac{-13}{21}$

19: $\frac{1}{8} - \frac{2}{10} = \frac{-3}{40}$

20: $\frac{3}{1} - \frac{4}{2} = 1$

21: $\frac{6}{7} - \frac{6}{9} = \frac{4}{21}$

22: $\frac{5}{2} - \frac{1}{6} = 2\frac{1}{3}$

23: $\frac{5}{3} - \frac{9}{7} = \frac{8}{21}$

24: $\frac{9}{7} - \frac{6}{2} = -1\frac{5}{7}$

25: $\frac{6}{5} - \frac{10}{7} = \frac{-8}{35}$

fracsub_1to10_1to10_1to10_1to10

fracsub_1to10_1to10_1to10_1to10

Question 15 [25 marks]

0: $\frac{8}{3} - \frac{9}{3} = \frac{-1}{3}$

1: $\frac{6}{4} - \frac{3}{8} = 1\frac{1}{8}$

2: $\frac{4}{8} - \frac{2}{8} = \frac{1}{4}$

3: $\frac{8}{6} - \frac{8}{7} = \frac{4}{21}$

4: $\frac{10}{2} - \frac{2}{6} = 4\frac{2}{3}$

5: $\frac{8}{6} - \frac{7}{2} = -2\frac{1}{6}$

6: $\frac{6}{8} - \frac{10}{3} = -2\frac{7}{12}$

7: $\frac{5}{6} - \frac{3}{8} = \frac{11}{24}$

8: $\frac{7}{1} - \frac{7}{4} = 5\frac{1}{4}$

9: $\frac{8}{2} - \frac{10}{9} = 2\frac{8}{9}$

10: $\frac{5}{5} - \frac{4}{8} = \frac{1}{2}$

11: $\frac{10}{3} - \frac{10}{6} = 1\frac{2}{3}$

12: $\frac{8}{7} - \frac{3}{10} = \frac{59}{70}$

13: $\frac{6}{6} - \frac{2}{9} = \frac{7}{9}$

14: $\frac{8}{6} - \frac{3}{1} = -1\frac{2}{3}$

15: $\frac{7}{2} - \frac{7}{9} = 2\frac{13}{18}$

16: $\frac{7}{2} - \frac{7}{7} = 2\frac{1}{2}$

17: $\frac{8}{5} - \frac{8}{2} = -2\frac{2}{5}$

18: $\frac{7}{9} - \frac{9}{8} = \frac{-25}{72}$

19: $\frac{5}{7} - \frac{8}{10} = \frac{-3}{35}$

20: $\frac{5}{6} - \frac{8}{7} = \frac{-13}{42}$

21: $\frac{7}{6} - \frac{1}{7} = 1\frac{1}{42}$

22: $\frac{1}{9} - \frac{5}{2} = -2\frac{7}{18}$

23: $\frac{8}{8} - \frac{9}{6} = \frac{-1}{2}$

24: $\frac{10}{4} - \frac{4}{5} = 1\frac{7}{10}$

25: $\frac{8}{2} - \frac{2}{3} = 3\frac{1}{3}$

Question 16 [25 marks]

0: $\frac{6}{2} - \frac{9}{4} = \frac{3}{4}$

1: $\frac{10}{4} - \frac{4}{7} = 1\frac{13}{14}$

2: $\frac{4}{6} - \frac{3}{2} = \frac{-5}{6}$

3: $\frac{1}{10} - \frac{5}{2} = -2\frac{2}{5}$

4: $\frac{2}{2} - \frac{7}{2} = -2\frac{1}{2}$

5: $\frac{10}{3} - \frac{2}{1} = 1\frac{1}{3}$

6: $\frac{9}{6} - \frac{2}{1} = \frac{-1}{2}$

7: $\frac{7}{1} - \frac{1}{4} = 6\frac{3}{4}$

8: $\frac{6}{10} - \frac{8}{6} = \frac{-11}{15}$

9: $\frac{5}{7} - \frac{10}{7} = \frac{-5}{7}$

10: $\frac{3}{6} - \frac{1}{8} = \frac{3}{8}$

11: $\frac{2}{1} - \frac{5}{6} = 1\frac{1}{6}$

12: $\frac{4}{5} - \frac{2}{10} = \frac{3}{5}$

13: $\frac{8}{7} - \frac{5}{7} = \frac{3}{7}$

14: $\frac{2}{8} - \frac{9}{8} = \frac{-7}{8}$

15: $\frac{3}{2} - \frac{4}{7} = \frac{13}{14}$

16: $\frac{4}{4} - \frac{3}{9} = \frac{2}{3}$

17: $\frac{3}{2} - \frac{4}{9} = 1\frac{1}{18}$

18: $\frac{10}{4} - \frac{4}{3} = 1\frac{1}{6}$

19: $\frac{9}{8} - \frac{10}{6} = \frac{-13}{24}$

20: $\frac{8}{2} - \frac{10}{7} = 2\frac{4}{7}$

21: $\frac{9}{5} - \frac{3}{8} = 1\frac{17}{40}$

22: $\frac{7}{7} - \frac{10}{7} = \frac{-3}{7}$

23: $\frac{8}{2} - \frac{10}{10} = 3$

24: $\frac{1}{7} - \frac{1}{8} = \frac{1}{56}$

25: $\frac{4}{5} - \frac{8}{5} = \frac{-4}{5}$

fracsub_1to10_1to10_1to10_1to10

fracsub_1to10_1to10_1to10_1to10

Question 17 [25 marks]

- 0: $\frac{20}{14} - \frac{14}{4} = -2\frac{1}{14}$
 1: $\frac{13}{11} - \frac{20}{14} = \frac{-19}{77}$
 2: $\frac{8}{17} - \frac{19}{3} = -5\frac{44}{51}$
 3: $\frac{14}{3} - \frac{11}{9} = 3\frac{4}{9}$
 4: $\frac{8}{15} - \frac{12}{12} = \frac{-7}{15}$
 5: $\frac{18}{1} - \frac{2}{13} = 17\frac{11}{13}$
 6: $\frac{5}{16} - \frac{15}{1} = -14\frac{11}{16}$
 7: $\frac{4}{19} - \frac{13}{18} = \frac{-175}{342}$
 8: $\frac{19}{10} - \frac{11}{17} = 1\frac{43}{170}$
 9: $\frac{17}{10} - \frac{5}{17} = 1\frac{69}{170}$
 10: $\frac{10}{2} - \frac{12}{6} = 3$
 11: $\frac{9}{1} - \frac{20}{9} = 6\frac{7}{9}$
 12: $\frac{6}{12} - \frac{1}{12} = \frac{5}{12}$
 13: $\frac{9}{18} - \frac{6}{9} = \frac{-1}{6}$
 14: $\frac{8}{2} - \frac{16}{8} = 2$
 15: $\frac{12}{4} - \frac{16}{9} = 1\frac{2}{9}$
 16: $\frac{12}{12} - \frac{4}{3} = \frac{-1}{3}$
 17: $\frac{20}{9} - \frac{10}{4} = \frac{-5}{18}$
 18: $\frac{7}{2} - \frac{13}{12} = 2\frac{5}{12}$
 19: $\frac{15}{9} - \frac{3}{11} = 1\frac{13}{33}$
 20: $\frac{7}{6} - \frac{17}{11} = \frac{-25}{66}$
 21: $\frac{16}{13} - \frac{19}{1} = -17\frac{10}{13}$
 22: $\frac{1}{13} - \frac{4}{5} = \frac{-47}{65}$
 23: $\frac{16}{13} - \frac{18}{4} = -3\frac{7}{26}$
 24: $\frac{19}{9} - \frac{2}{10} = 1\frac{41}{45}$
 25: $\frac{17}{18} - \frac{14}{6} = -1\frac{7}{18}$

fracsub_1to20_1to20_1to20_1to20

Question 18 [25 marks]

- 0: $\frac{9}{16} - \frac{1}{14} = \frac{55}{112}$
 1: $\frac{4}{16} - \frac{1}{8} = \frac{1}{8}$
 2: $\frac{6}{19} - \frac{10}{9} = \frac{-136}{171}$
 3: $\frac{17}{17} - \frac{14}{7} = -1$
 4: $\frac{15}{10} - \frac{13}{16} = \frac{11}{16}$
 5: $\frac{15}{4} - \frac{19}{9} = 1\frac{23}{36}$
 6: $\frac{20}{5} - \frac{3}{2} = 2\frac{1}{2}$
 7: $\frac{10}{20} - \frac{15}{8} = -1\frac{3}{8}$
 8: $\frac{20}{13} - \frac{4}{15} = 1\frac{53}{195}$
 9: $\frac{14}{1} - \frac{4}{20} = 13\frac{4}{5}$
 10: $\frac{15}{7} - \frac{8}{14} = 1\frac{4}{7}$
 11: $\frac{2}{2} - \frac{4}{15} = \frac{11}{15}$
 12: $\frac{6}{12} - \frac{18}{5} = -3\frac{1}{10}$
 13: $\frac{3}{1} - \frac{12}{8} = 1\frac{1}{2}$
 14: $\frac{5}{15} - \frac{18}{19} = \frac{-35}{57}$
 15: $\frac{20}{18} - \frac{13}{13} = \frac{1}{9}$
 16: $\frac{3}{12} - \frac{17}{6} = -2\frac{7}{12}$
 17: $\frac{20}{2} - \frac{4}{13} = 9\frac{9}{13}$
 18: $\frac{15}{17} - \frac{4}{12} = \frac{28}{51}$
 19: $\frac{12}{3} - \frac{1}{13} = 3\frac{12}{13}$
 20: $\frac{13}{14} - \frac{10}{6} = \frac{-31}{42}$
 21: $\frac{4}{4} - \frac{20}{5} = -3$
 22: $\frac{20}{11} - \frac{15}{13} = \frac{95}{143}$
 23: $\frac{7}{17} - \frac{2}{20} = \frac{53}{170}$
 24: $\frac{8}{2} - \frac{15}{1} = -11$
 25: $\frac{6}{13} - \frac{10}{13} = \frac{-4}{13}$

fracsub_1to20_1to20_1to20_1to20

Question 19 [25 marks]

0: $\frac{16}{10} - \frac{13}{6} = \frac{-17}{30}$

1: $\frac{6}{10} - \frac{17}{14} = \frac{-43}{70}$

2: $\frac{2}{11} - \frac{14}{8} = -1\frac{25}{44}$

3: $\frac{5}{17} - \frac{12}{5} = -2\frac{9}{85}$

4: $\frac{6}{14} - \frac{13}{3} = -3\frac{19}{21}$

5: $\frac{8}{18} - \frac{12}{14} = \frac{-26}{63}$

6: $\frac{3}{14} - \frac{11}{10} = \frac{-31}{35}$

7: $\frac{19}{4} - \frac{4}{8} = 4\frac{1}{4}$

8: $\frac{2}{9} - \frac{7}{10} = \frac{-43}{90}$

9: $\frac{15}{7} - \frac{5}{6} = 1\frac{13}{42}$

10: $\frac{7}{6} - \frac{5}{4} = \frac{-1}{12}$

11: $\frac{7}{19} - \frac{11}{20} = \frac{-69}{380}$

12: $\frac{5}{6} - \frac{6}{2} = -2\frac{1}{6}$

13: $\frac{16}{20} - \frac{20}{3} = -5\frac{13}{15}$

14: $\frac{11}{14} - \frac{6}{15} = \frac{27}{70}$

15: $\frac{12}{9} - \frac{15}{3} = -3\frac{2}{3}$

16: $\frac{8}{18} - \frac{12}{9} = \frac{-8}{9}$

17: $\frac{1}{13} - \frac{10}{17} = \frac{-113}{221}$

18: $\frac{8}{11} - \frac{6}{10} = \frac{7}{55}$

19: $\frac{11}{7} - \frac{14}{20} = \frac{61}{70}$

20: $\frac{14}{13} - \frac{20}{15} = \frac{-10}{39}$

21: $\frac{2}{4} - \frac{19}{11} = -1\frac{5}{22}$

22: $\frac{11}{14} - \frac{9}{8} = \frac{-19}{56}$

23: $\frac{8}{2} - \frac{8}{1} = -4$

24: $\frac{11}{12} - \frac{6}{7} = \frac{5}{84}$

25: $\frac{12}{6} - \frac{5}{8} = 1\frac{3}{8}$

fracsub_1to20_1to20_1to20_1to20

Question 20 [25 marks]

0: $\frac{1}{15} - \frac{8}{6} = -1\frac{4}{15}$

1: $\frac{11}{13} - \frac{3}{2} = \frac{-17}{26}$

2: $\frac{4}{19} - \frac{13}{20} = \frac{-167}{380}$

3: $\frac{18}{3} - \frac{2}{2} = 5$

4: $\frac{18}{14} - \frac{13}{16} = \frac{53}{112}$

5: $\frac{10}{2} - \frac{8}{18} = 4\frac{5}{9}$

6: $\frac{3}{8} - \frac{15}{9} = -1\frac{7}{24}$

7: $\frac{1}{17} - \frac{7}{7} = \frac{-16}{17}$

8: $\frac{17}{19} - \frac{13}{20} = \frac{93}{380}$

9: $\frac{8}{9} - \frac{7}{11} = \frac{25}{99}$

10: $\frac{12}{18} - \frac{13}{17} = \frac{-5}{51}$

11: $\frac{13}{5} - \frac{10}{17} = 2\frac{1}{85}$

12: $\frac{4}{11} - \frac{4}{8} = \frac{-3}{22}$

13: $\frac{3}{13} - \frac{13}{14} = \frac{-127}{182}$

14: $\frac{19}{17} - \frac{9}{13} = \frac{94}{221}$

15: $\frac{9}{5} - \frac{6}{17} = 1\frac{38}{85}$

16: $\frac{17}{1} - \frac{7}{12} = 16\frac{5}{12}$

17: $\frac{20}{13} - \frac{19}{5} = -2\frac{17}{65}$

18: $\frac{6}{19} - \frac{20}{17} = \frac{-278}{323}$

19: $\frac{18}{19} - \frac{14}{9} = \frac{-104}{171}$

20: $\frac{18}{12} - \frac{11}{5} = \frac{-7}{10}$

21: $\frac{16}{15} - \frac{11}{4} = -1\frac{41}{60}$

22: $\frac{14}{4} - \frac{1}{3} = 3\frac{1}{6}$

23: $\frac{5}{15} - \frac{2}{4} = \frac{-1}{6}$

24: $\frac{4}{2} - \frac{16}{3} = -3\frac{1}{3}$

25: $\frac{7}{5} - \frac{2}{20} = 1\frac{3}{10}$

fracsub_1to20_1to20_1to20_1to20

Question 21 [25 marks]

0: $\frac{9}{17} - \frac{16}{17} = \frac{-7}{17}$

1: $\frac{10}{15} - \frac{5}{5} = \frac{-1}{3}$

2: $\frac{9}{10} - \frac{17}{20} = \frac{1}{20}$

3: $\frac{9}{11} - \frac{17}{2} = -7\frac{15}{22}$

4: $\frac{8}{6} - \frac{11}{4} = -1\frac{5}{12}$

5: $\frac{5}{16} - \frac{18}{13} = -1\frac{15}{208}$

6: $\frac{13}{20} - \frac{4}{11} = \frac{63}{220}$

7: $\frac{1}{6} - \frac{12}{13} = \frac{-59}{78}$

8: $\frac{13}{11} - \frac{20}{4} = -3\frac{9}{11}$

9: $\frac{2}{2} - \frac{6}{19} = \frac{13}{19}$

10: $\frac{4}{4} - \frac{14}{7} = -1$

11: $\frac{12}{4} - \frac{10}{16} = 2\frac{3}{8}$

12: $\frac{12}{6} - \frac{11}{1} = -9$

13: $\frac{9}{16} - \frac{2}{10} = \frac{29}{80}$

14: $\frac{11}{8} - \frac{12}{6} = \frac{-5}{8}$

15: $\frac{14}{1} - \frac{11}{20} = 13\frac{9}{20}$

16: $\frac{6}{15} - \frac{1}{2} = \frac{-1}{10}$

17: $\frac{7}{10} - \frac{14}{11} = \frac{-63}{110}$

18: $\frac{4}{18} - \frac{19}{12} = -1\frac{13}{36}$

19: $\frac{14}{20} - \frac{19}{7} = -2\frac{1}{70}$

20: $\frac{14}{4} - \frac{8}{14} = 2\frac{13}{14}$

21: $\frac{13}{3} - \frac{17}{6} = 1\frac{1}{2}$

22: $\frac{6}{19} - \frac{6}{7} = \frac{-72}{133}$

23: $\frac{17}{14} - \frac{11}{9} = \frac{-1}{126}$

24: $\frac{11}{11} - \frac{2}{14} = \frac{6}{7}$

25: $\frac{9}{9} - \frac{7}{17} = \frac{10}{17}$

fracsub_1to20_1to20_1to20_1to20

Question 22 [25 marks]

0: $\frac{6}{3} - \frac{8}{16} = 1\frac{1}{2}$

1: $\frac{15}{19} - \frac{10}{6} = \frac{-50}{57}$

2: $\frac{8}{4} - \frac{2}{11} = 1\frac{9}{11}$

3: $\frac{7}{17} - \frac{18}{18} = \frac{-10}{17}$

4: $\frac{15}{6} - \frac{14}{6} = \frac{1}{6}$

5: $\frac{13}{19} - \frac{18}{9} = -1\frac{6}{19}$

6: $\frac{16}{13} - \frac{17}{20} = \frac{99}{260}$

7: $\frac{7}{19} - \frac{7}{3} = -1\frac{55}{57}$

8: $\frac{5}{15} - \frac{16}{3} = -5$

9: $\frac{10}{4} - \frac{20}{10} = \frac{1}{2}$

10: $\frac{8}{10} - \frac{18}{20} = \frac{-1}{10}$

11: $\frac{9}{2} - \frac{13}{10} = 3\frac{1}{5}$

12: $\frac{17}{16} - \frac{6}{10} = \frac{37}{80}$

13: $\frac{19}{9} - \frac{8}{17} = 1\frac{98}{153}$

14: $\frac{20}{3} - \frac{20}{4} = 1\frac{2}{3}$

15: $\frac{4}{6} - \frac{12}{19} = \frac{2}{57}$

16: $\frac{12}{18} - \frac{9}{15} = \frac{1}{15}$

17: $\frac{7}{11} - \frac{6}{6} = \frac{-4}{11}$

18: $\frac{15}{14} - \frac{16}{5} = -2\frac{9}{70}$

19: $\frac{20}{12} - \frac{1}{19} = 1\frac{35}{57}$

20: $\frac{2}{10} - \frac{8}{17} = \frac{-23}{85}$

21: $\frac{14}{15} - \frac{2}{17} = \frac{208}{255}$

22: $\frac{17}{18} - \frac{8}{3} = -1\frac{13}{18}$

23: $\frac{8}{20} - \frac{5}{10} = \frac{-1}{10}$

24: $\frac{19}{19} - \frac{19}{18} = \frac{-1}{18}$

25: $\frac{1}{7} - \frac{15}{7} = -2$

fracsub_1to20_1to20_1to20_1to20

Question 23 [25 marks]

- 0: $\frac{6}{14} - \frac{11}{1} = -10\frac{4}{7}$
 1: $\frac{8}{14} - \frac{12}{9} = \frac{-16}{21}$
 2: $\frac{12}{3} - \frac{12}{10} = 2\frac{4}{5}$
 3: $\frac{14}{13} - \frac{20}{4} = -3\frac{12}{13}$
 4: $\frac{13}{3} - \frac{2}{18} = 4\frac{2}{9}$
 5: $\frac{10}{8} - \frac{11}{16} = \frac{9}{16}$
 6: $\frac{2}{18} - \frac{16}{7} = -2\frac{11}{63}$
 7: $\frac{20}{5} - \frac{19}{1} = -15$
 8: $\frac{1}{16} - \frac{1}{15} = \frac{-1}{240}$
 9: $\frac{5}{16} - \frac{6}{10} = \frac{-23}{80}$
 10: $\frac{13}{19} - \frac{8}{7} = \frac{-61}{133}$
 11: $\frac{10}{8} - \frac{15}{18} = \frac{5}{12}$
 12: $\frac{3}{17} - \frac{8}{8} = \frac{-14}{17}$
 13: $\frac{9}{18} - \frac{6}{18} = \frac{1}{6}$
 14: $\frac{18}{6} - \frac{6}{12} = 2\frac{1}{2}$
 15: $\frac{5}{4} - \frac{5}{10} = \frac{3}{4}$
 16: $\frac{13}{19} - \frac{3}{2} = \frac{-31}{38}$
 17: $\frac{12}{19} - \frac{3}{9} = \frac{17}{57}$
 18: $\frac{17}{10} - \frac{9}{14} = 1\frac{2}{35}$
 19: $\frac{9}{4} - \frac{20}{10} = \frac{1}{4}$
 20: $\frac{18}{3} - \frac{7}{6} = 4\frac{5}{6}$
 21: $\frac{14}{11} - \frac{13}{8} = \frac{-31}{88}$
 22: $\frac{18}{6} - \frac{17}{5} = \frac{-2}{5}$
 23: $\frac{15}{8} - \frac{10}{1} = -8\frac{1}{8}$
 24: $\frac{15}{3} - \frac{11}{6} = 3\frac{1}{6}$
 25: $\frac{4}{9} - \frac{10}{16} = \frac{-13}{72}$

fracsub_1to20_1to20_1to20_1to20

Question 24 [25 marks]

- 0: $\frac{16}{18} - \frac{11}{5} = -1\frac{14}{45}$
 1: $\frac{16}{17} - \frac{6}{6} = \frac{-1}{17}$
 2: $\frac{3}{10} - \frac{4}{20} = \frac{1}{10}$
 3: $\frac{16}{3} - \frac{3}{18} = 5\frac{1}{6}$
 4: $\frac{13}{6} - \frac{5}{6} = 1\frac{1}{3}$
 5: $\frac{3}{6} - \frac{17}{19} = \frac{-15}{38}$
 6: $\frac{10}{1} - \frac{11}{12} = 9\frac{1}{12}$
 7: $\frac{10}{1} - \frac{1}{13} = 9\frac{12}{13}$
 8: $\frac{15}{2} - \frac{4}{13} = 7\frac{5}{26}$
 9: $\frac{2}{18} - \frac{19}{7} = -2\frac{38}{63}$
 10: $\frac{18}{10} - \frac{19}{19} = \frac{4}{5}$
 11: $\frac{20}{7} - \frac{20}{8} = \frac{5}{14}$
 12: $\frac{15}{1} - \frac{17}{20} = 14\frac{3}{20}$
 13: $\frac{12}{12} - \frac{6}{6} = 0$
 14: $\frac{9}{20} - \frac{19}{10} = -1\frac{9}{20}$
 15: $\frac{16}{5} - \frac{6}{9} = 2\frac{8}{15}$
 16: $\frac{10}{2} - \frac{10}{15} = 4\frac{1}{3}$
 17: $\frac{8}{20} - \frac{5}{6} = \frac{-13}{30}$
 18: $\frac{1}{15} - \frac{19}{9} = -2\frac{2}{45}$
 19: $\frac{13}{5} - \frac{20}{9} = \frac{17}{45}$
 20: $\frac{16}{13} - \frac{9}{18} = \frac{19}{26}$
 21: $\frac{7}{12} - \frac{3}{9} = \frac{1}{4}$
 22: $\frac{2}{13} - \frac{4}{11} = \frac{-30}{143}$
 23: $\frac{17}{15} - \frac{4}{12} = \frac{4}{5}$
 24: $\frac{8}{17} - \frac{15}{17} = \frac{-7}{17}$
 25: $\frac{18}{1} - \frac{15}{17} = 17\frac{2}{17}$

fracsub_1to20_1to20_1to20_1to20

Question 25 [25 marks]

0: $\frac{8}{4} - \frac{1}{6} = 1\frac{5}{6}$

1: $\frac{19}{17} - \frac{18}{6} = -1\frac{15}{17}$

2: $\frac{8}{7} - \frac{2}{14} = 1$

3: $\frac{14}{14} - \frac{6}{16} = \frac{5}{8}$

4: $\frac{11}{13} - \frac{4}{3} = \frac{-19}{39}$

5: $\frac{19}{4} - \frac{15}{19} = 3\frac{73}{76}$

6: $\frac{3}{16} - \frac{5}{12} = \frac{-11}{48}$

7: $\frac{6}{5} - \frac{19}{16} = \frac{1}{80}$

8: $\frac{2}{11} - \frac{7}{12} = \frac{-53}{132}$

9: $\frac{20}{14} - \frac{7}{15} = \frac{101}{105}$

10: $\frac{10}{11} - \frac{11}{5} = -1\frac{16}{55}$

11: $\frac{18}{17} - \frac{12}{9} = \frac{-14}{51}$

12: $\frac{8}{9} - \frac{18}{11} = \frac{-74}{99}$

13: $\frac{6}{17} - \frac{9}{14} = \frac{-69}{238}$

14: $\frac{10}{17} - \frac{3}{11} = \frac{59}{187}$

15: $\frac{16}{5} - \frac{18}{19} = 2\frac{24}{95}$

16: $\frac{3}{6} - \frac{8}{15} = \frac{-1}{30}$

17: $\frac{8}{17} - \frac{5}{20} = \frac{15}{68}$

18: $\frac{13}{6} - \frac{20}{17} = \frac{101}{102}$

19: $\frac{20}{19} - \frac{16}{3} = -4\frac{16}{57}$

20: $\frac{9}{5} - \frac{9}{8} = \frac{27}{40}$

21: $\frac{7}{10} - \frac{10}{2} = -4\frac{3}{10}$

22: $\frac{2}{2} - \frac{4}{1} = -3$

23: $\frac{5}{7} - \frac{3}{1} = -2\frac{2}{7}$

24: $\frac{15}{12} - \frac{10}{15} = \frac{7}{12}$

25: $\frac{13}{14} - \frac{14}{1} = -13\frac{1}{14}$

Question 26 [25 marks]

0: $\frac{4}{15} - \frac{12}{3} = -3\frac{11}{15}$

1: $\frac{1}{15} - \frac{11}{1} = -10\frac{14}{15}$

2: $\frac{9}{19} - \frac{6}{8} = \frac{-21}{76}$

3: $\frac{2}{10} - \frac{10}{4} = -2\frac{3}{10}$

4: $\frac{19}{2} - \frac{19}{6} = 6\frac{1}{3}$

5: $\frac{5}{2} - \frac{18}{4} = -2$

6: $\frac{7}{4} - \frac{8}{10} = \frac{19}{20}$

7: $\frac{4}{9} - \frac{8}{17} = \frac{-4}{153}$

8: $\frac{3}{7} - \frac{14}{10} = \frac{-34}{35}$

9: $\frac{15}{8} - \frac{11}{5} = \frac{-13}{40}$

10: $\frac{14}{14} - \frac{16}{4} = -3$

11: $\frac{16}{3} - \frac{20}{10} = 3\frac{1}{3}$

12: $\frac{1}{6} - \frac{3}{16} = \frac{-1}{48}$

13: $\frac{9}{8} - \frac{6}{10} = \frac{21}{40}$

14: $\frac{16}{14} - \frac{10}{7} = \frac{-2}{7}$

15: $\frac{12}{12} - \frac{17}{16} = \frac{-1}{16}$

16: $\frac{1}{3} - \frac{20}{3} = -6\frac{1}{3}$

17: $\frac{5}{13} - \frac{2}{6} = \frac{2}{39}$

18: $\frac{1}{3} - \frac{20}{16} = \frac{-11}{12}$

19: $\frac{7}{10} - \frac{9}{13} = \frac{1}{130}$

20: $\frac{12}{16} - \frac{19}{4} = -4$

21: $\frac{20}{13} - \frac{10}{8} = \frac{15}{52}$

22: $\frac{14}{16} - \frac{13}{7} = \frac{-55}{56}$

23: $\frac{1}{16} - \frac{4}{2} = -1\frac{15}{16}$

24: $\frac{18}{17} - \frac{9}{19} = \frac{189}{323}$

25: $\frac{17}{3} - \frac{11}{13} = 4\frac{32}{39}$

fracsub_1to20_1to20_1to20_1to20

fracsub_1to20_1to20_1to20_1to20

Question 27 [25 marks]

- 0: $\frac{17}{3} - \frac{14}{15} = 4\frac{11}{15}$
 1: $\frac{10}{2} - \frac{14}{2} = -2$
 2: $\frac{19}{14} - \frac{16}{2} = -6\frac{9}{14}$
 3: $\frac{3}{20} - \frac{9}{17} = \frac{-129}{340}$
 4: $\frac{3}{1} - \frac{7}{19} = 2\frac{12}{19}$
 5: $\frac{1}{3} - \frac{17}{13} = \frac{-38}{39}$
 6: $\frac{20}{1} - \frac{12}{18} = 19\frac{1}{3}$
 7: $\frac{8}{2} - \frac{6}{1} = -2$
 8: $\frac{6}{15} - \frac{6}{1} = -5\frac{3}{5}$
 9: $\frac{7}{17} - \frac{18}{17} = \frac{-11}{17}$
 10: $\frac{1}{10} - \frac{14}{9} = -1\frac{41}{90}$
 11: $\frac{4}{20} - \frac{4}{6} = \frac{-7}{15}$
 12: $\frac{15}{10} - \frac{7}{19} = 1\frac{5}{38}$
 13: $\frac{5}{1} - \frac{18}{7} = 2\frac{3}{7}$
 14: $\frac{19}{7} - \frac{14}{7} = \frac{5}{7}$
 15: $\frac{13}{20} - \frac{15}{15} = \frac{-7}{20}$
 16: $\frac{17}{20} - \frac{10}{19} = \frac{123}{380}$
 17: $\frac{15}{9} - \frac{16}{7} = \frac{-13}{21}$
 18: $\frac{3}{5} - \frac{14}{6} = -1\frac{11}{15}$
 19: $\frac{13}{14} - \frac{4}{7} = \frac{5}{14}$
 20: $\frac{9}{16} - \frac{10}{13} = \frac{-43}{208}$
 21: $\frac{4}{15} - \frac{8}{19} = \frac{-44}{285}$
 22: $\frac{14}{3} - \frac{4}{20} = 4\frac{7}{15}$
 23: $\frac{19}{17} - \frac{11}{16} = \frac{117}{272}$
 24: $\frac{7}{9} - \frac{17}{17} = \frac{-2}{9}$
 25: $\frac{3}{13} - \frac{10}{12} = \frac{-47}{78}$

fracsub_1to20_1to20_1to20_1to20

Question 28 [25 marks]

- 0: $\frac{15}{2} - \frac{7}{3} = 5\frac{1}{6}$
 1: $\frac{8}{10} - \frac{8}{5} = \frac{-4}{5}$
 2: $\frac{17}{16} - \frac{5}{11} = \frac{107}{176}$
 3: $\frac{16}{12} - \frac{10}{14} = \frac{13}{21}$
 4: $\frac{11}{9} - \frac{1}{2} = \frac{13}{18}$
 5: $\frac{17}{17} - \frac{17}{4} = -3\frac{1}{4}$
 6: $\frac{10}{1} - \frac{11}{11} = 9$
 7: $\frac{16}{2} - \frac{8}{20} = 7\frac{3}{5}$
 8: $\frac{2}{4} - \frac{13}{10} = \frac{-4}{5}$
 9: $\frac{7}{12} - \frac{15}{12} = \frac{-2}{3}$
 10: $\frac{18}{20} - \frac{19}{4} = -3\frac{17}{20}$
 11: $\frac{11}{14} - \frac{4}{14} = \frac{1}{2}$
 12: $\frac{12}{16} - \frac{11}{7} = \frac{-23}{28}$
 13: $\frac{11}{7} - \frac{18}{13} = \frac{17}{91}$
 14: $\frac{11}{12} - \frac{18}{20} = \frac{1}{60}$
 15: $\frac{20}{16} - \frac{4}{15} = \frac{59}{60}$
 16: $\frac{6}{12} - \frac{9}{1} = -8\frac{1}{2}$
 17: $\frac{7}{13} - \frac{8}{17} = \frac{15}{221}$
 18: $\frac{16}{13} - \frac{11}{8} = \frac{-15}{104}$
 19: $\frac{16}{2} - \frac{17}{11} = 6\frac{5}{11}$
 20: $\frac{10}{11} - \frac{9}{2} = -3\frac{13}{22}$
 21: $\frac{20}{12} - \frac{10}{10} = \frac{2}{3}$
 22: $\frac{9}{9} - \frac{20}{7} = -1\frac{6}{7}$
 23: $\frac{16}{18} - \frac{16}{3} = -4\frac{4}{9}$
 24: $\frac{2}{10} - \frac{7}{8} = \frac{-27}{40}$
 25: $\frac{13}{4} - \frac{16}{1} = -12\frac{3}{4}$

fracsub_1to20_1to20_1to20_1to20

Question 29 [25 marks]

0: $\frac{6}{5} - \frac{2}{6} = \frac{13}{15}$

1: $\frac{15}{8} - \frac{18}{7} = \frac{-39}{56}$

2: $\frac{6}{2} - \frac{10}{7} = 1\frac{4}{7}$

3: $\frac{8}{6} - \frac{1}{16} = 1\frac{13}{48}$

4: $\frac{12}{4} - \frac{16}{20} = 2\frac{1}{5}$

5: $\frac{10}{13} - \frac{6}{12} = \frac{7}{26}$

6: $\frac{2}{3} - \frac{12}{15} = \frac{-2}{15}$

7: $\frac{16}{17} - \frac{6}{14} = \frac{61}{119}$

8: $\frac{4}{10} - \frac{1}{10} = \frac{3}{10}$

9: $\frac{4}{15} - \frac{6}{12} = \frac{-7}{30}$

10: $\frac{15}{10} - \frac{14}{10} = \frac{1}{10}$

11: $\frac{5}{15} - \frac{2}{2} = \frac{-2}{3}$

12: $\frac{13}{11} - \frac{16}{8} = \frac{-9}{11}$

13: $\frac{14}{5} - \frac{15}{16} = 1\frac{69}{80}$

14: $\frac{15}{15} - \frac{1}{16} = \frac{15}{16}$

15: $\frac{4}{12} - \frac{9}{19} = \frac{-8}{57}$

16: $\frac{8}{7} - \frac{17}{9} = \frac{-47}{63}$

17: $\frac{12}{20} - \frac{19}{10} = -1\frac{3}{10}$

18: $\frac{18}{12} - \frac{4}{4} = \frac{1}{2}$

19: $\frac{17}{18} - \frac{16}{12} = \frac{-7}{18}$

20: $\frac{9}{12} - \frac{20}{7} = -2\frac{3}{28}$

21: $\frac{18}{3} - \frac{18}{13} = 4\frac{8}{13}$

22: $\frac{10}{12} - \frac{17}{13} = \frac{-37}{78}$

23: $\frac{9}{19} - \frac{1}{18} = \frac{143}{342}$

24: $\frac{2}{1} - \frac{18}{9} = 0$

25: $\frac{4}{1} - \frac{17}{15} = 2\frac{13}{15}$

Question 30 [25 marks]

0: $\frac{8}{8} - \frac{15}{12} = \frac{-1}{4}$

1: $\frac{5}{9} - \frac{13}{1} = -12\frac{4}{9}$

2: $\frac{5}{16} - \frac{18}{7} = -2\frac{29}{112}$

3: $\frac{5}{18} - \frac{9}{13} = \frac{-97}{234}$

4: $\frac{3}{15} - \frac{11}{5} = -2$

5: $\frac{17}{8} - \frac{10}{14} = 1\frac{23}{56}$

6: $\frac{8}{7} - \frac{8}{19} = \frac{96}{133}$

7: $\frac{14}{16} - \frac{8}{3} = -1\frac{19}{24}$

8: $\frac{17}{3} - \frac{10}{3} = 2\frac{1}{3}$

9: $\frac{7}{15} - \frac{16}{2} = -7\frac{8}{15}$

10: $\frac{2}{17} - \frac{10}{12} = \frac{-73}{102}$

11: $\frac{10}{12} - \frac{18}{1} = -17\frac{1}{6}$

12: $\frac{11}{17} - \frac{20}{20} = \frac{-6}{17}$

13: $\frac{7}{13} - \frac{14}{5} = -2\frac{17}{65}$

14: $\frac{18}{14} - \frac{2}{2} = \frac{2}{7}$

15: $\frac{2}{11} - \frac{18}{20} = \frac{-79}{110}$

16: $\frac{12}{1} - \frac{19}{15} = 10\frac{11}{15}$

17: $\frac{9}{2} - \frac{7}{3} = 2\frac{1}{6}$

18: $\frac{9}{12} - \frac{2}{15} = \frac{37}{60}$

19: $\frac{15}{13} - \frac{4}{16} = \frac{47}{52}$

20: $\frac{8}{20} - \frac{19}{4} = -4\frac{7}{20}$

21: $\frac{18}{15} - \frac{18}{16} = \frac{3}{40}$

22: $\frac{13}{9} - \frac{2}{12} = 1\frac{5}{18}$

23: $\frac{13}{4} - \frac{5}{19} = 2\frac{75}{76}$

24: $\frac{13}{3} - \frac{13}{15} = 3\frac{7}{15}$

25: $\frac{10}{16} - \frac{7}{14} = \frac{1}{8}$

fracsub_1to20_1to20_1to20_1to20

fracsub_1to20_1to20_1to20_1to20

Question 31 [25 marks]

0: $\frac{3}{18} - \frac{7}{16} = \frac{-13}{48}$

1: $\frac{14}{17} - \frac{1}{14} = \frac{179}{238}$

2: $\frac{7}{17} - \frac{9}{20} = \frac{-13}{340}$

3: $\frac{12}{19} - \frac{3}{7} = \frac{27}{133}$

4: $\frac{3}{7} - \frac{12}{12} = \frac{-4}{7}$

5: $\frac{9}{11} - \frac{19}{19} = \frac{-2}{11}$

6: $\frac{19}{12} - \frac{16}{2} = -6\frac{5}{12}$

7: $\frac{18}{5} - \frac{18}{20} = 2\frac{7}{10}$

8: $\frac{13}{15} - \frac{18}{8} = -1\frac{23}{60}$

9: $\frac{1}{20} - \frac{20}{7} = -2\frac{113}{140}$

10: $\frac{15}{11} - \frac{13}{15} = \frac{82}{165}$

11: $\frac{10}{7} - \frac{18}{20} = \frac{37}{70}$

12: $\frac{1}{20} - \frac{16}{17} = \frac{-303}{340}$

13: $\frac{10}{9} - \frac{14}{20} = \frac{37}{90}$

14: $\frac{15}{19} - \frac{17}{20} = \frac{-23}{380}$

15: $\frac{3}{15} - \frac{5}{2} = -2\frac{3}{10}$

16: $\frac{13}{4} - \frac{5}{9} = 2\frac{25}{36}$

17: $\frac{1}{14} - \frac{18}{18} = \frac{-13}{14}$

18: $\frac{18}{5} - \frac{16}{20} = 2\frac{4}{5}$

19: $\frac{18}{1} - \frac{20}{2} = 8$

20: $\frac{13}{4} - \frac{15}{5} = \frac{1}{4}$

21: $\frac{14}{11} - \frac{10}{14} = \frac{43}{77}$

22: $\frac{6}{8} - \frac{14}{6} = -1\frac{7}{12}$

23: $\frac{2}{11} - \frac{7}{20} = \frac{-37}{220}$

24: $\frac{13}{15} - \frac{14}{9} = \frac{-31}{45}$

25: $\frac{14}{6} - \frac{17}{9} = \frac{4}{9}$

Question 32 [25 marks]

0: $\frac{18}{18} - \frac{1}{2} = \frac{1}{2}$

1: $\frac{1}{19} - \frac{15}{9} = -1\frac{35}{57}$

2: $\frac{5}{1} - \frac{9}{5} = 3\frac{1}{5}$

3: $\frac{16}{3} - \frac{19}{12} = 3\frac{3}{4}$

4: $\frac{15}{18} - \frac{20}{11} = \frac{-65}{66}$

5: $\frac{7}{13} - \frac{18}{16} = \frac{-61}{104}$

6: $\frac{8}{4} - \frac{17}{1} = -15$

7: $\frac{17}{17} - \frac{3}{15} = \frac{4}{5}$

8: $\frac{10}{5} - \frac{18}{3} = -4$

9: $\frac{9}{4} - \frac{2}{5} = 1\frac{17}{20}$

10: $\frac{10}{10} - \frac{10}{4} = -1\frac{1}{2}$

11: $\frac{8}{11} - \frac{14}{9} = \frac{-82}{99}$

12: $\frac{20}{5} - \frac{17}{12} = 2\frac{7}{12}$

13: $\frac{11}{18} - \frac{5}{8} = \frac{-1}{72}$

14: $\frac{6}{15} - \frac{5}{13} = \frac{1}{65}$

15: $\frac{7}{5} - \frac{1}{15} = 1\frac{1}{3}$

16: $\frac{9}{8} - \frac{2}{19} = 1\frac{3}{152}$

17: $\frac{8}{15} - \frac{16}{15} = \frac{-8}{15}$

18: $\frac{3}{6} - \frac{1}{18} = \frac{4}{9}$

19: $\frac{13}{17} - \frac{19}{10} = -1\frac{23}{170}$

20: $\frac{13}{16} - \frac{12}{18} = \frac{7}{48}$

21: $\frac{6}{2} - \frac{15}{2} = -4\frac{1}{2}$

22: $\frac{10}{6} - \frac{12}{12} = \frac{2}{3}$

23: $\frac{18}{17} - \frac{10}{20} = \frac{19}{34}$

24: $\frac{4}{17} - \frac{16}{8} = -1\frac{13}{17}$

25: $\frac{9}{9} - \frac{10}{17} = \frac{7}{17}$

fracsub_1to20_1to20_1to20_1to20

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