Add and Subtract Rationals 2

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Perform the indicated operation. Simplify if possible.

1) $\dfrac{11}{7x^2} - \dfrac{6}{7x^2}$

1) _____

2) $\dfrac{x}{x - 4} + \dfrac{-9}{x - 4}$

2) _____

3) $\dfrac{x^2 - 11x}{x - 6} + \dfrac{30}{x - 6}$

3) _____

4) $\dfrac{17}{16x} - \dfrac{2}{16x}$

4) _____

5) $\dfrac{5x + 14}{x^2 + 14x + 45} + \dfrac{-5 - 4x}{x^2 + 14x + 45}$

5) _____

6) $\dfrac{1}{14x} + \dfrac{5}{8x}$

6) _____

7) $\dfrac{6}{r} + \dfrac{7}{r - 8}$

7) _____

8) $\dfrac{m + 8}{m^2 + 5m + 6} + \dfrac{4m - 5}{m^2 + 9m + 18}$

8) _____

9) $\dfrac{10}{x^2 + 5x} + \dfrac{5}{x} + \dfrac{2}{x + 5}$

9) _____

10) $\dfrac{3x}{x + 1} + \dfrac{4}{x - 1} - \dfrac{6}{x^2 - 1}$

10) _____

11) $\dfrac{9}{z^2} - \dfrac{8}{z}$

11) _____

1) $\dfrac{5}{7x^2}$

2) $\dfrac{x - 9}{x - 4}$

3) $x - 5$

4) $\dfrac{15}{16x}$

5) $\dfrac{1}{x + 5}$

6) $\dfrac{39}{56x}$

7) $\dfrac{13r - 48}{r(r - 8)}$

8) $\dfrac{5m^2 + 17m + 38}{(m + 3)(m + 2)(m + 6)}$

9) $\dfrac{7}{x}$

10) $\dfrac{3x - 2}{x - 1}$

11) $\dfrac{9 - 8z}{z^2}$