Add and Subtract Rationals 1

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

Perform the indicated operation. Simplify if possible.

1) $\dfrac{21}{23x} - \dfrac{2}{23x}$

1) _____

2) $\dfrac{9}{9x^2} - \dfrac{3}{9x^2}$

2) _____

3) $\dfrac{x^2 - 8x}{x - 6} + \dfrac{12}{x - 6}$

3) _____

4) $\dfrac{x}{x + 9} + \dfrac{-6}{x + 9}$

4) _____

5) $\dfrac{10x - 2}{x^2 - 5x + 4} + \dfrac{-2 - 9x}{x^2 - 5x + 4}$

5) _____

6) $\dfrac{4}{9x} + \dfrac{1}{11x}$

6) _____

7) $\dfrac{m - 5}{m^2 + 5m - 14} + \dfrac{3m - 2}{m^2 + 3m - 10}$

7) _____

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

8) _____

9) $\dfrac{5x}{x + 1} + \dfrac{6}{x - 1} - \dfrac{10}{x^2 - 1}$

9) _____

10) $\dfrac{7}{z^2} - \dfrac{2}{z}$

10) _____

11) $\dfrac{12}{x^2 + 3x} + \dfrac{7}{x} + \dfrac{4}{x + 3}$

11) _____

1

1) $\dfrac{19}{23x}$

2) $\dfrac{2}{3x^2}$

3) $x - 2$

4) $\dfrac{x - 6}{x + 9}$

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

6) $\dfrac{53}{99x}$

7) $\dfrac{4m^2 + 19m - 39}{(m - 2)(m + 7)(m + 5)}$

8) $\dfrac{14r - 42}{r(r - 7)}$

9) $\dfrac{5x - 4}{x - 1}$

10) $\dfrac{7 - 2z}{z^2}$

11) $\dfrac{11}{x}$