Add and Subtract Rational 3

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

Perform the indicated operation. Simplify if possible.

1) $\dfrac{7x}{x+1} + \dfrac{8}{x-1} - \dfrac{14}{x^2-1}$

1) _____

2) $\dfrac{m-3}{m^2+6m+8} + \dfrac{3m+5}{m^2-3m-10}$

2) _____

3) $\dfrac{2}{r} + \dfrac{8}{r-3}$

3) _____

4) $\dfrac{6}{7x^2} - \dfrac{4}{7x^2}$

4) _____

5) $\dfrac{3}{8x} + \dfrac{4}{13x}$

5) _____

6) $\dfrac{6}{z^2} - \dfrac{9}{z}$

6) _____

7) $\dfrac{10}{19x} - \dfrac{4}{19x}$

7) _____

8) $\dfrac{x^2-5x}{x-2} + \dfrac{6}{x-2}$

8) _____

9) $\dfrac{6x-3}{x^2+7x+10} + \dfrac{5-5x}{x^2+7x+10}$

9) _____

10) $\dfrac{10}{x^2+2x} + \dfrac{7}{x} + \dfrac{5}{x+2}$

10) _____

11) $\dfrac{x}{x+6} + \dfrac{2}{x+6}$

11) _____

1) $\dfrac{7x - 6}{x - 1}$

2) $\dfrac{4m^2 + 9m + 35}{(m + 2)(m + 4)(m - 5)}$

3) $\dfrac{10r - 6}{r(r - 3)}$

4) $\dfrac{2}{7x^2}$

5) $\dfrac{71}{104x}$

6) $\dfrac{6 - 9z}{z^2}$

7) $\dfrac{6}{19x}$

8) $x - 3$

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

10) $\dfrac{12}{x}$

11) $\dfrac{x + 2}{x + 6}$