Rational Equations 2

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

Solve the equation.

1) $\frac{3}{4}x + \frac{9}{2} = \frac{1}{2}x$

1) _____

2) $\frac{2x}{5} - \frac{x}{3} = 2$

2) _____

Solve.

3) $\frac{1}{x - 1} + \frac{1}{4x - 4} = \frac{5}{4}$

3) _____

4) $\frac{x}{7} - \frac{7}{x} = 0$

4) _____

5) $\frac{4}{3x} + \frac{1}{2x} = -\frac{1}{6}$

5) _____

6) $\frac{8}{7} - \frac{13}{14} = \frac{1}{x}$

6) _____

7) $\frac{x - 4}{4} - 1 = \frac{x + 4}{7}$

7) _____

8) $\frac{y}{y + 4} + \frac{8y + 28}{y^2 + 7y + 12} = \frac{4}{y + 3}$

8) _____

9) $\frac{x + 6}{x - 5} = \frac{9}{5 - x}$

9) _____

10) $\frac{y + 1}{y + 6} - \frac{y}{y^2 - 36} = \frac{y - 3}{y - 6}$

10) _____

11) $\frac{4}{x - 2} + \frac{1}{x} = \frac{-2}{x^2 - 2x}$

11) _____

12) $\frac{7}{y + 2} - \frac{3}{y - 2} = \frac{12}{y^2 - 4}$

12) _____

13) $\frac{2}{t} = \frac{t}{5t - 12}$

13) _____

1

Answer Key
Testname: RATEQUANDPREREQ

1) -18
2) 30
3) 2
4) -7, 7
5) -11
6) $\dfrac{14}{3}$

7) 24
8) No solution
9) -15
10) $\dfrac{4}{3}$

11) No solution
12) 8
13) 4, 6