

Rational Equations 1

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

Solve the equation.

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

1) _____

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

2) _____

Solve.

3) $\frac{4}{x-4} + \frac{1}{4x-16} = \frac{17}{4}$

3) _____

Solve and check.

4) $\frac{x}{2} - \frac{2}{x} = 0$

4) _____

5) $\frac{13}{5x} + \frac{1}{2x} = -\frac{1}{10}$

5) _____

6) $\frac{6}{5} - \frac{9}{10} = \frac{1}{x}$

6) _____

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

7) _____

8) $\frac{x-2}{x-6} = \frac{8}{6-x}$

8) _____

Solve.

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

9) _____

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

10) _____

11) $\frac{7}{x-6} + \frac{8}{x} = \frac{-48}{x^2-6x}$

11) _____

Solve the equation.

12) $\frac{2}{y+3} - \frac{4}{y-3} = \frac{12}{y^2-9}$

12) _____

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

13) _____

Answer Key

Testname: RATEQUANDPREREQ

- 1) -16
- 2) 60
- 3) 5
- 4) -2, 2
- 5) -31
- 6) $\frac{10}{3}$
- 7) 16
- 8) -6
- 9) $\frac{4}{3}$
- 10) No solution
- 11) No solution
- 12) -15
- 13) 4, 6