

Rational Equations 3

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

Solve the equation.

1) $\frac{17}{10}x + \frac{8}{5} = \frac{8}{5}x$

1) _____

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

2) _____

Solve.

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

3) _____

4) $\frac{x}{8} - \frac{8}{x} = 0$

4) _____

5) $\frac{14}{5x} + \frac{1}{2x} = -\frac{1}{10}$

5) _____

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

6) _____

7) $\frac{x+1}{7} - 1 = \frac{x-1}{5}$

7) _____

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

8) _____

9) $\frac{x-5}{x-6} = \frac{2}{6-x}$

9) _____

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

10) _____

11) $\frac{5}{y+4} - \frac{3}{y-4} = \frac{12}{y^2-16}$

11) _____

12) $\frac{8}{x-6} + \frac{7}{x} = \frac{-42}{x^2-6x}$

12) _____

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

13) _____

Answer Key

Testname: RATEQUANDPREREQ

1) -16

2) 30

3) 2

4) -8, 8

5) -33

6) $\frac{14}{3}$

7) $-\frac{23}{2}$

8) No solution

9) 3

10) $\frac{4}{3}$

11) 22

12) No solution

13) 4, 6