Solving Rational Equations · 1

$$\text{Solve: } \frac{9}{x+5} = \frac{3}{x-1}$$

Solving Rational Equations · 2

$$\text{Solve: } x + \frac{21}{x} = 10$$

Solving Rational Equations · 3

$$\text{Solve: } \frac{x^2 + x}{x+3} = \frac{6}{x+3}$$

Solving Rational Equations · 4

$$\text{Solve: } \frac{x}{x+5} = -\frac{5}{x+5} - 1$$

Solving Rational Equations · 5

$$\text{Solve: } x - \frac{18}{x} = 3$$

Solving Rational Equations · 6

$$\text{Solve: } -\frac{7}{x-6} = \frac{3}{x+4}$$

Solving Rational Equations · 7

$$\text{Solve: } \frac{x^2}{x-6} = \frac{36}{x-6}$$

Solving Rational Equations · 8

$$\text{Solve: } x - \frac{16}{x} = 0$$

Solving Rational Equations · 2

ANSWER

$x = 7$ or $x = 3$

Solving Rational Equations · 1

ANSWER

$x = 4$

Solving Rational Equations · 4

ANSWER

no solution

Solving Rational Equations · 3

ANSWER

$x = 2$

Solving Rational Equations · 6

ANSWER

$x = -1$

Solving Rational Equations · 5

ANSWER

$x = 6$ or $x = -3$

Solving Rational Equations · 8

ANSWER

$x = 4$ or $x = -4$

Solving Rational Equations · 7

ANSWER

$x = -6$

Solving Rational Equations · 9

Solve: $-\frac{21}{x - 6} = \frac{6}{x + 3}$

Solving Rational Equations · 10

Solve: $x - \frac{6}{x} = -1$

Solving Rational Equations · 11

Solve: $\frac{x^2 + x}{x - 2} = \frac{6}{x - 2}$

Solving Rational Equations · 12

Solve: $\frac{x}{x - 7} = \frac{7}{x - 7} + 2$

Solving Rational Equations · 13

Solve: $x + \frac{30}{x} = -11$

Solving Rational Equations · 14

Solve: $-\frac{18}{x - 1} = -\frac{21}{x - 2}$

Solving Rational Equations · 15

Solve: $\frac{x^2 + 5x}{x + 6} = \frac{6}{x + 6}$

Solving Rational Equations · 16

Solve: $x + \frac{2}{x} = 3$

Solving Rational Equations · 10

ANSWER

$x = 2$ or $x = -3$

Solving Rational Equations · 9

ANSWER

$x = -1$

Solving Rational Equations · 12

ANSWER

no solution

Solving Rational Equations · 11

ANSWER

$x = -3$

Solving Rational Equations · 14

ANSWER

$x = -5$

Solving Rational Equations · 13

ANSWER

$x = -5$ or $x = -6$

Solving Rational Equations · 16

ANSWER

$x = 2$ or $x = 1$

Solving Rational Equations · 15

ANSWER

$x = 1$

Solving Rational Equations · 17

$$\text{Solve: } \frac{16}{x+6} = \frac{6}{x-4}$$

Solving Rational Equations · 18

$$\text{Solve: } x + \frac{21}{x} = -10$$

Solving Rational Equations · 19

$$\text{Solve: } \frac{x^2 - 2x}{x-6} = \frac{24}{x-6}$$

Solving Rational Equations · 20

$$\text{Solve: } \frac{x}{x+7} = -\frac{7}{x+7} + 3$$

Solving Rational Equations · 21

$$\text{Solve: } \frac{3}{-x+1} = -\frac{21}{x-5}$$

Solving Rational Equations · 22

$$\text{Solve: } \frac{x^2 - 6x}{x-1} = -\frac{5}{x-1}$$

Solving Rational Equations · 23

$$\text{Solve: } x + \frac{8}{x} = 6$$

Solving Rational Equations · 24

$$\text{Solve: } \frac{3}{-x-4} = -\frac{9}{x+2}$$

Solving Rational Equations · 18

ANSWER

$x = -3$ or $x = -7$

Solving Rational Equations · 17

ANSWER

$x = 10$

Solving Rational Equations · 20

ANSWER

no solution

Solving Rational Equations · 19

ANSWER

$x = -4$

Solving Rational Equations · 22

ANSWER

$x = 5$

Solving Rational Equations · 21

ANSWER

$x = -2$

Solving Rational Equations · 24

ANSWER

$x = 7$

Solving Rational Equations · 23

ANSWER

$x = 4$ or $x = 2$