Solving Rational Equations · 1

$$\text{Solve: } \frac{4}{x+5} = \frac{3}{x+4}$$

Solving Rational Equations · 2

$$\text{Solve: } x - \frac{1}{x} = 0$$

Solving Rational Equations · 3

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

Solving Rational Equations · 4

$$\text{Solve: } \frac{x}{x - 1} = \frac{1}{x - 1} + 2$$

Solving Rational Equations · 5

$$\text{Solve: } x + \frac{4}{x} = 5$$

Solving Rational Equations · 6

$$\text{Solve: } \frac{4}{-x + 2} = -\frac{3}{x + 1}$$

Solving Rational Equations · 7

$$\text{Solve: } \frac{x^2 - 11x}{x - 4} = \frac{28}{-x - 4}$$

Solving Rational Equations · 8

$$\text{Solve: } x - \frac{21}{x} = -4$$

Solving Rational Equations · 2

ANSWER

$x = 1$ or $x = -1$

Solving Rational Equations · 1

ANSWER

$x = -1$

Solving Rational Equations · 4

ANSWER

no solution

Solving Rational Equations · 3

ANSWER

$x = -2$

Solving Rational Equations · 6

ANSWER

$x = 2$

Solving Rational Equations · 5

ANSWER

$x = 4$ or $x = 1$

Solving Rational Equations · 8

ANSWER

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

Solving Rational Equations · 7

ANSWER

$x = 7$

Solving Rational Equations · 9

$$\text{Solve: } \frac{6}{x+1} = \frac{8}{x-1}$$

Solving Rational Equations · 10

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

Solving Rational Equations · 11

$$\text{Solve: } \frac{x^2 + 4x}{x-3} = \frac{21}{x-3}$$

Solving Rational Equations · 12

$$\text{Solve: } \frac{x}{x-1} = \frac{1}{x-1} + 4$$

Solving Rational Equations · 13

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

Solving Rational Equations · 14

$$\text{Solve: } \frac{6}{x+2} = -\frac{3}{x-1}$$

Solving Rational Equations · 15

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

Solving Rational Equations · 16

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

Solving Rational Equations · 10

ANSWER

$x = 6$ or $x = 5$

Solving Rational Equations · 9

ANSWER

$x = -7$

Solving Rational Equations · 12

ANSWER

no solution

Solving Rational Equations · 11

ANSWER

$x = -7$

Solving Rational Equations · 14

ANSWER

$x = 0$

Solving Rational Equations · 13

ANSWER

$x = -1$ or $x = -6$

Solving Rational Equations · 16

ANSWER

$x = 1$ or $x = -6$

Solving Rational Equations · 15

ANSWER

$x = 6$

Solving Rational Equations · 17

$$\text{Solve: } -x + 2 = -\frac{4}{x - 2} - \frac{8}{x - 2}$$

Solving Rational Equations · 18

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

Solving Rational Equations · 19

$$\text{Solve: } \frac{x^2 + 10x}{x + 4} = \frac{24}{-x + 4}$$

Solving Rational Equations · 20

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

Solving Rational Equations · 21

$$\text{Solve: } x - \frac{35}{x} = -2$$

Solving Rational Equations · 22

$$\text{Solve: } \frac{12}{x - 6} = \frac{3}{x + 3}$$

Solving Rational Equations · 23

$$\text{Solve: } \frac{x^2 + x}{x + 5} = \frac{20}{x + 5}$$

Solving Rational Equations · 24

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

Solving Rational Equations · 18

ANSWER

$x = 3$ or $x = 1$

Solving Rational Equations · 17

ANSWER

$x = -6$

Solving Rational Equations · 20

ANSWER

no solution

Solving Rational Equations · 19

ANSWER

$x = -6$

Solving Rational Equations · 22

ANSWER

$x = -6$

Solving Rational Equations · 21

ANSWER

$x = 5$ or $x = -7$

Solving Rational Equations · 24

ANSWER

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

Solving Rational Equations · 23

ANSWER

$x = 4$