Quadratic Formula & the Discriminant · 1

Solve using the quadratic formula: $x^2 - 9x + 14 = 0$

Quadratic Formula & the Discriminant · 2

Solve using the quadratic formula: $x^2 + 4x - 5 = 0$

Quadratic Formula & the Discriminant · 3

Solve using the quadratic formula: $x^2 - 7x + 10 = 0$

Quadratic Formula & the Discriminant · 4

Solve using the quadratic formula: $x^2 - 3x - 10 = 0$

Quadratic Formula & the Discriminant · 5

Solve using the quadratic formula: $x^2 + 14x + 49 = 0$

Quadratic Formula & the Discriminant · 6

Find the discriminant ($b^2 - 4ac$) of $x^2 - 5x + 2 = 0$.

Quadratic Formula & the Discriminant · 7

How many real solutions does $x^2 + 5x - 1 = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 8

Find the discriminant ($b^2 - 4ac$) of $3x^2 + 2x - 2 = 0$.

Quadratic Formula & the Discriminant · 2

ANSWER

$x = 1$ or $x = -5$

Quadratic Formula & the Discriminant · 1

ANSWER

$x = 7$ or $x = 2$

Quadratic Formula & the Discriminant · 4

ANSWER

$x = 5$ or $x = -2$

Quadratic Formula & the Discriminant · 3

ANSWER

$x = 5$ or $x = 2$

Quadratic Formula & the Discriminant · 6

ANSWER

17

Quadratic Formula & the Discriminant · 5

ANSWER

$x = -7$

Quadratic Formula & the Discriminant · 8

ANSWER

28

Quadratic Formula & the Discriminant · 7

ANSWER

2

Solve using the quadratic formula: $x^2 - 3x - 4 = 0$

Solve using the quadratic formula: $x^2 + 6x - 7 = 0$

Solve using the quadratic formula: $x^2 + 15x + 56 = 0$

Solve using the quadratic formula: $x^2 - 8x + 16 = 0$

Solve using the quadratic formula: $x^2 - 12x + 36 = 0$

How many real solutions does $2x^2 + 7x - 5 = 0$ have? (Use the discriminant.)

How many real solutions does $x^2 + 4x - 2 = 0$ have? (Use the discriminant.)

Find the discriminant ($b^2 - 4ac$) of $x^2 - 8x - 3 = 0$.

Quadratic Formula & the Discriminant · 10

ANSWER

$x = 1$ or $x = -7$

Quadratic Formula & the Discriminant · 9

ANSWER

$x = 4$ or $x = -1$

Quadratic Formula & the Discriminant · 12

ANSWER

$x = 4$

Quadratic Formula & the Discriminant · 11

ANSWER

$x = -7$ or $x = -8$

Quadratic Formula & the Discriminant · 14

ANSWER

2

Quadratic Formula & the Discriminant · 13

ANSWER

$x = 6$

Quadratic Formula & the Discriminant · 16

ANSWER

76

Quadratic Formula & the Discriminant · 15

ANSWER

2

Quadratic Formula & the Discriminant · 17

Solve using the quadratic formula: $x^2 - 2x + 1 = 0$

Quadratic Formula & the Discriminant · 18

Solve using the quadratic formula: $x^2 + 9x + 18 = 0$

Quadratic Formula & the Discriminant · 19

Solve using the quadratic formula: $x^2 - 14x + 48 = 0$

Quadratic Formula & the Discriminant · 20

Solve using the quadratic formula: $x^2 - 12x + 32 = 0$

Quadratic Formula & the Discriminant · 21

Solve using the quadratic formula: $x^2 + 2x - 24 = 0$

Quadratic Formula & the Discriminant · 22

How many real solutions does $x^2 - 5 = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 23

Find the discriminant ($b^2 - 4ac$) of $2x^2 + 4x + 6 = 0$.

Quadratic Formula & the Discriminant · 24

How many real solutions does $x^2 + 9x + 7 = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 18

ANSWER

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

Quadratic Formula & the Discriminant · 17

ANSWER

$x = 1$

Quadratic Formula & the Discriminant · 20

ANSWER

$x = 8$ or $x = 4$

Quadratic Formula & the Discriminant · 19

ANSWER

$x = 8$ or $x = 6$

Quadratic Formula & the Discriminant · 22

ANSWER

2

Quadratic Formula & the Discriminant · 21

ANSWER

$x = 4$ or $x = -6$

Quadratic Formula & the Discriminant · 24

ANSWER

2

Quadratic Formula & the Discriminant · 23

ANSWER

-32