Quadratic Formula & the Discriminant · 1

Solve using the quadratic formula: $x^2 - 6x + 8 = 0$

Quadratic Formula & the Discriminant · 2

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

Quadratic Formula & the Discriminant · 3

Solve using the quadratic formula: $x^2 - 11x + 10 = 0$

Quadratic Formula & the Discriminant · 4

Solve using the quadratic formula: $x^2 - 11x + 24 = 0$

Quadratic Formula & the Discriminant · 5

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

Quadratic Formula & the Discriminant · 6

Find the discriminant ($b^2 - 4ac$) of $x^2 + 4x - 1 = 0$.

Quadratic Formula & the Discriminant · 7

How many real solutions does $2x^2 - 4x - 9 = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 8

How many real solutions does $3x^2 + 10x - 7 = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 2

ANSWER

$x = 1$

Quadratic Formula & the Discriminant · 1

ANSWER

$x = 4$ or $x = 2$

Quadratic Formula & the Discriminant · 4

ANSWER

$x = 8$ or $x = 3$

Quadratic Formula & the Discriminant · 3

ANSWER

$x = 10$ or $x = 1$

Quadratic Formula & the Discriminant · 6

ANSWER

20

Quadratic Formula & the Discriminant · 5

ANSWER

$x = 0$

Quadratic Formula & the Discriminant · 8

ANSWER

2

Quadratic Formula & the Discriminant · 7

ANSWER

2

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

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

Solve using the quadratic formula: $x^2 + 16x + 64 = 0$

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

Solve using the quadratic formula: $x^2 - 10x + 24 = 0$

Find the discriminant ($b^2 - 4ac$) of $3x^2 + 10x - 7 = 0$.

Find the discriminant ($b^2 - 4ac$) of $x^2 - 4x - 10 = 0$.

How many real solutions does $2x^2 - 3x = 0$ have? (Use the discriminant.)

Quadratic Formula & the Discriminant · 10

ANSWER

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

Quadratic Formula & the Discriminant · 9

ANSWER

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

Quadratic Formula & the Discriminant · 12

ANSWER

$x = 5$ or $x = -3$

Quadratic Formula & the Discriminant · 11

ANSWER

$x = -8$

Quadratic Formula & the Discriminant · 14

ANSWER

184

Quadratic Formula & the Discriminant · 13

ANSWER

$x = 6$ or $x = 4$

Quadratic Formula & the Discriminant · 16

ANSWER

2

Quadratic Formula & the Discriminant · 15

ANSWER

56

Quadratic Formula & the Discriminant · 17

Solve using the quadratic formula: $x^2 - 15x + 50 = 0$

Quadratic Formula & the Discriminant · 18

Solve using the quadratic formula: $x^2 + 18x + 81 = 0$

Quadratic Formula & the Discriminant · 19

Solve using the quadratic formula: $x^2 - 3x - 70 = 0$

Quadratic Formula & the Discriminant · 20

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

Quadratic Formula & the Discriminant · 21

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

Quadratic Formula & the Discriminant · 22

Find the discriminant ($b^2 - 4ac$) of $3x^2 - 9x + 1 = 0$.

Quadratic Formula & the Discriminant · 23

Find the discriminant ($b^2 - 4ac$) of $3x^2 + 4x + 1 = 0$.

Quadratic Formula & the Discriminant · 24

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

Quadratic Formula & the Discriminant · 18

ANSWER

x = -9

Quadratic Formula & the Discriminant · 17

ANSWER

x = 10 or x = 5

Quadratic Formula & the Discriminant · 20

ANSWER

x = 7

Quadratic Formula & the Discriminant · 19

ANSWER

x = 10 or x = -7

Quadratic Formula & the Discriminant · 22

ANSWER

69

Quadratic Formula & the Discriminant · 21

ANSWER

x = 7 or x = -1

Quadratic Formula & the Discriminant · 24

ANSWER

-48

Quadratic Formula & the Discriminant · 23

ANSWER

4