Task card 1 The Quadratic Formula

Find the discriminant of $x^2 - 10x - 11 = 0$.

Task card 2 The Quadratic Formula

How many real solutions does $x^2 - 11x + 4 = 0$ have?

Task card 3 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 + 12x + 9 = 0$

Task card 4 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 + 5x - 4 = 0$

Task card 5 The Quadratic Formula

Find the discriminant of $3x^2 + 11x + 9 = 0$.

Task card 6 The Quadratic Formula

How many real solutions does $3x^2 + 5x - 5 = 0$ have?

Task card 7 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 - 12x - 135 = 0$

Task card 8 The Quadratic Formula

Solve using the quadratic formula:

$x^2 - 11x - 11 = 0$

Task card 9 The Quadratic Formula

Find the discriminant of $3x^2 - 6x - 1 = 0$.

Task card 10 The Quadratic Formula

How many real solutions does $x^2 + 6x + 9 = 0$ have?

Task card 11 The Quadratic Formula

Solve using the quadratic formula:

$x^2 - x - 72 = 0$

Task card 12 The Quadratic Formula

Solve using the quadratic formula:

$2x^2 - 8x - 1 = 0$

Task card 13 The Quadratic Formula

Find the discriminant of $4x^2 - 6x + 4 = 0$.

Task card 14 The Quadratic Formula

How many real solutions does $x^2 - 2x + 5 = 0$ have?

Task card 15 The Quadratic Formula

Solve using the quadratic formula:

$x^2 + 2x - 63 = 0$

Task card 16 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 - 5x - 3 = 0$

Task card 17 The Quadratic Formula

How many real solutions does $3x^2 + 2x + 10 = 0$ have?

Task card 18 The Quadratic Formula

Solve using the quadratic formula:

$5x^2 - x - 9 = 0$

Task card 19 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 - 7x - 2 = 0$

Task card 20 The Quadratic Formula

Solve using the quadratic formula:

$x^2 - 3x - 4 = 0$

Task card 21 The Quadratic Formula

How many real solutions does $-3x^2 + 5x + 12 = 0$ have?

Task card 22 The Quadratic Formula

Solve using the quadratic formula:

$4x^2 + 7x - 6 = 0$

Task card 23 The Quadratic Formula

Solve using the quadratic formula:

$4x^2 + 5x - 12 = 0$

Task card 24 The Quadratic Formula

Solve using the quadratic formula:

$3x^2 + 30x + 27 = 0$

The Quadratic Formula Task Cards

Recording sheet · Grade 9 · Answer each question. Write two solutions like x = -1.5 or x = 4 and round to the nearest hundredth when needed.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

The Quadratic Formula Task Cards: Answer Key

Grade 9 · Medium

The answers online

1. 144	**2.** 2	**3.** x = -3 or x = -1
4. x = -2.26 or x = 0.59	**5.** 13	**6.** 2
7. x = -5 or x = 9	**8.** x = -0.92 or x = 11.92	**9.** 48
10. 1	**11.** x = -8 or x = 9	**12.** x = -0.12 or x = 4.12
13. -28	**14.** 0	**15.** x = -9 or x = 7
16. x = -0.47 or x = 2.14	**17.** 0	**18.** x = -1.25 or x = 1.45
19. x = -0.26 or x = 2.59	**20.** x = -1 or x = 4	**21.** 2
22. x = -2.38 or x = 0.63	**23.** x = -2.47 or x = 1.22	**24.** x = -9 or x = -1