**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 |