Task card 1 Quadratic Inequalities

Solve: $3x^2 + 30x + 27 > 0$

Task card 2 Quadratic Inequalities

Solve: $-3x^2 - 51x - 216 \geq 0$

Task card 3 Quadratic Inequalities

Solve: $x^2 - 17x > -72$

Task card 4 Quadratic Inequalities

Solve: $x^2 + 11 \leq 0$

Task card 5 Quadratic Inequalities

Solve: $-2x^2 + 20x - 18 < 0$

Task card 6 Quadratic Inequalities

Solve: $4x^2 + 8x - 60 > 0$

Task card 7 Quadratic Inequalities

Solve: $x^2 + 12x + 36 < 0$

Task card 8 Quadratic Inequalities

Solve: $x^2 + 7x \leq -10$

Task card 9 Quadratic Inequalities

Solve: $3x^2 - 42x + 135 \leq 0$

Task card 10 Quadratic Inequalities

Solve: $-2x^2 + 2x + 24 < 0$

Task card 11 Quadratic Inequalities

Solve: $x^2 - 7x > -12$

Task card 12 Quadratic Inequalities

Solve: $x^2 + 2x + 1 \leq 0$

Task card 13 Quadratic Inequalities

Solve: $-3x^2 - 12x - 9 \leq 0$

Task card 14 Quadratic Inequalities

Solve: $4x^2 + 16x < 0$

Task card 15 Quadratic Inequalities

Solve: $x^2 + 2 \geq 0$

Task card 16 Quadratic Inequalities

Solve: $x^2 - 7x \leq -10$

Task card 17 Quadratic Inequalities

Solve: $4x^2 - 16x - 20 \geq 0$

Task card 18 Quadratic Inequalities

Solve: $-3x^2 + 30x - 72 < 0$

Task card 19 Quadratic Inequalities

Solve: $-3x^2 - 33x - 84 > 0$

Task card 20 Quadratic Inequalities

Solve: $5x^2 - 20x + 15 \geq 0$

Task card 21 Quadratic Inequalities

Solve: $x^2 + 4 \leq 0$

Task card 22 Quadratic Inequalities

Solve: $x^2 + 8x \leq -12$

Task card 23 Quadratic Inequalities

Solve: $5x^2 - 65x + 180 \leq 0$

Task card 24 Quadratic Inequalities

Solve: $-x^2 + 15x - 56 < 0$

Quadratic Inequalities Task Cards

Recording sheet · Grade 11 · Solve each inequality. Write "between" answers like -2 < x < 5 and "outside" answers like x < -2 or x > 5 (smaller number first). Type <= and >= for ≤ and ≥. If no x works write no solution; if every x works write all real numbers.

Scan to check your answers

Name: _____ Date: _____

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

Quadratic Inequalities Task Cards: Answer Key

Grade 11 · Hard

The answers online

1. $x < -9$ or $x > -1$	**2.** $-9 \leq x \leq -8$	**3.** $x < 8$ or $x > 9$
4. no solution	**5.** $x < 1$ or $x > 9$	**6.** $x < -5$ or $x > 3$
7. no solution	**8.** $-5 \leq x \leq -2$	**9.** $5 \leq x \leq 9$
10. $x < -3$ or $x > 4$	**11.** $x < 3$ or $x > 4$	**12.** $x = -1$
13. $x \leq -3$ or $x \geq -1$	**14.** $-4 < x < 0$	**15.** all real numbers
16. $2 \leq x \leq 5$	**17.** $x \leq -1$ or $x \geq 5$	**18.** $x < 4$ or $x > 6$
19. $-7 < x < -4$	**20.** $x \leq 1$ or $x \geq 3$	**21.** no solution
22. $-6 \leq x \leq -2$	**23.** $4 \leq x \leq 9$	**24.** $x < 7$ or $x > 8$