Task card 1 Quadratic Inequalities

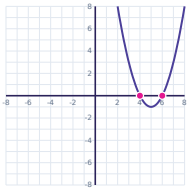
Solve: $x^2 + 7x + 6 \geq 0$

Task card 2 Quadratic Inequalities

Solve: $x^2 + 3x > 4$

Task card 3 Quadratic Inequalities

The graph of $y = x^2 - 10x + 24$ is shown. Solve: $x^2 - 10x + 24 < 0$



Task card 4 Quadratic Inequalities

Solve: $x^2 - 8x + 15 < 0$

Task card 5 Quadratic Inequalities

Solve: $4x^2 - 28x > 0$

Task card 6 Quadratic Inequalities

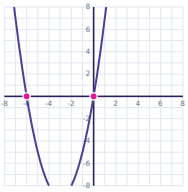
Solve: $x^2 - 11x + 28 < 0$

Task card 7 Quadratic Inequalities

Solve: $x^2 - 6x < -5$

Task card 8 Quadratic Inequalities

The graph of $y = x^2 + 6x$ is shown. Solve: $x^2 + 6x > 0$



Task card 9 Quadratic Inequalities

Solve: $x^2 - 6x + 5 \geq 0$

Task card 10 Quadratic Inequalities

Solve: $2x^2 + 22x + 48 < 0$

Task card 11 Quadratic Inequalities

Solve: $x^2 - 16x > -63$

Task card 12 Quadratic Inequalities

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

Task card 13 Quadratic Inequalities

Solve: $x^2 - 17x + 72 \geq 0$

Task card 14 Quadratic Inequalities

Solve: $2x^2 - 14x + 24 \geq 0$

Task card 15 Quadratic Inequalities

Solve: $x^2 + 4x \leq -3$

Task card 16 Quadratic Inequalities

Solve: $-x^2 - 12x - 27 \geq 0$

Task card 17 Quadratic Inequalities

Solve: $x^2 - 10x + 16 < 0$

Task card 18 Quadratic Inequalities

Solve: $5x^2 - 25x + 30 > 0$

Task card 19 Quadratic Inequalities

Solve: $x^2 + 5x < 14$

Task card 20 Quadratic Inequalities

Solve: $-x^2 - x > 0$

Task card 21 Quadratic Inequalities

Solve: $x^2 - 16 < 0$

Task card 22 Quadratic Inequalities

Solve: $5x^2 + 55x + 140 \geq 0$

Task card 23 Quadratic Inequalities

Solve: $x^2 + 9x > -20$

Task card 24 Quadratic Inequalities

Solve: $-x^2 + 14x - 45 \leq 0$

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 · Medium

The answers online

1. $x \leq -6$ or $x \geq -1$	**2.** $x < -4$ or $x > 1$	**3.** $4 < x < 6$
4. $3 < x < 5$	**5.** $x < 0$ or $x > 7$	**6.** $4 < x < 7$
7. $1 < x < 5$	**8.** $x < -6$ or $x > 0$	**9.** $x \leq 1$ or $x \geq 5$
10. $-8 < x < -3$	**11.** $x < 7$ or $x > 9$	**12.** $-1 \leq x \leq 2$
13. $x \leq 8$ or $x \geq 9$	**14.** $x \leq 3$ or $x \geq 4$	**15.** $-3 \leq x \leq -1$
16. $-9 \leq x \leq -3$	**17.** $2 < x < 8$	**18.** $x < 2$ or $x > 3$
19. $-7 < x < 2$	**20.** $-1 < x < 0$	**21.** $-4 < x < 4$
22. $x \leq -7$ or $x \geq -4$	**23.** $x < -5$ or $x > -4$	**24.** $x \leq 5$ or $x \geq 9$