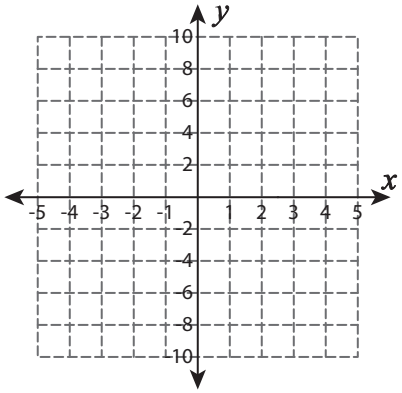
Name : _____ Score : _____

# Solving Quadratic Inequalities

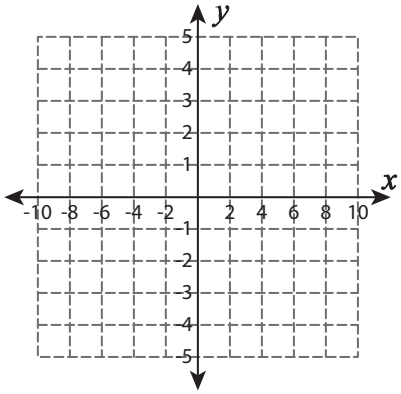
Sheet 1

Solve each inequality using the graph.

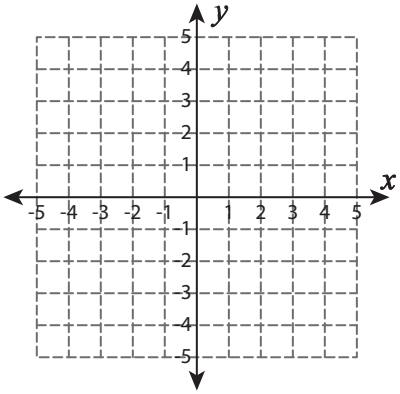
1) $-2x^2 + 3x + 5 > 0$



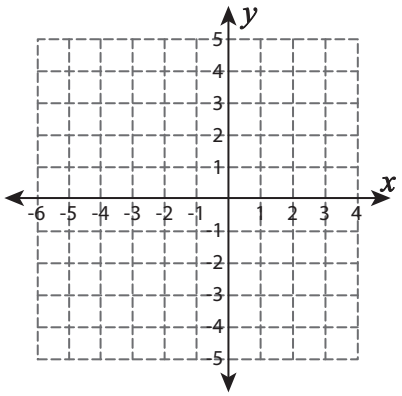
2) $x^2 - 12x + 32 \leq 0$



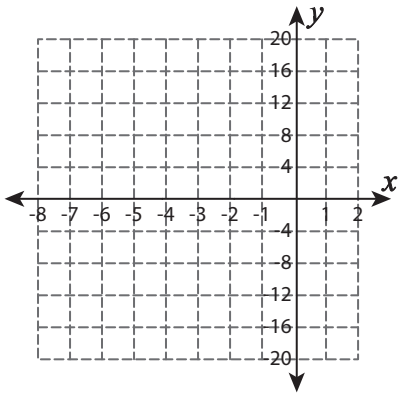
3) $-x^2 - 2x + 3 < 0$



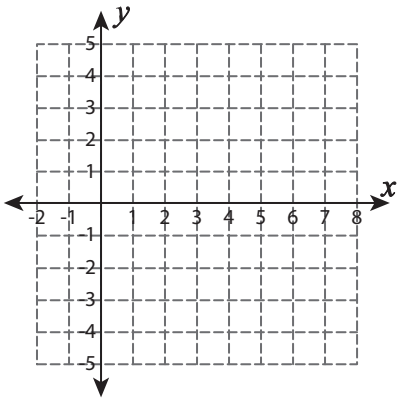
4) $-x^2 - 7x - 10 \leq 0$



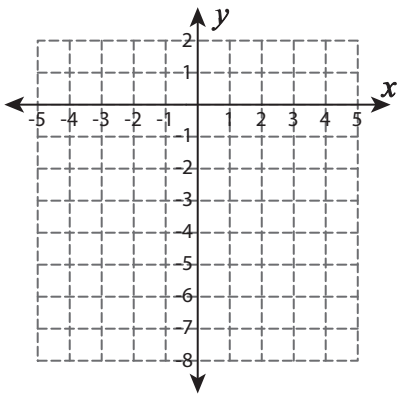
5) $-x^2 - 6x + 7 \geq 0$



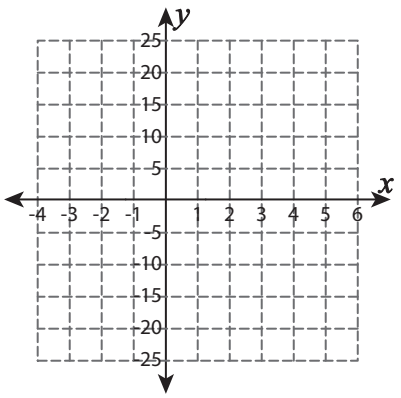
6) $x^2 - 6x + 5 \leq 0$



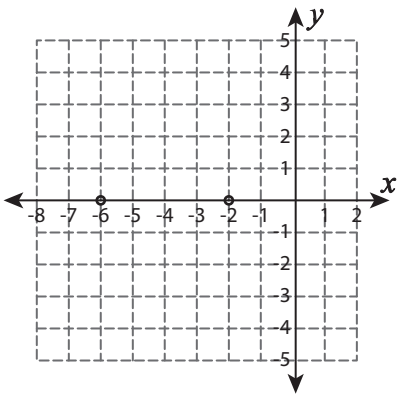
7) $5x^2 - 8x - 4 > 0$



8) $-16x^2 + 25 < 0$



9) $x^2 + 8x + 12 > 0$



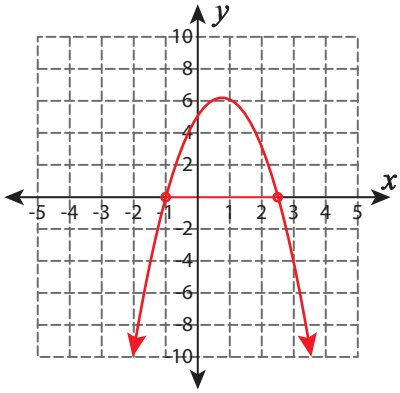
Name : _____ **Answer key** Score : _____

# Solving Quadratic Inequalities

Sheet 1

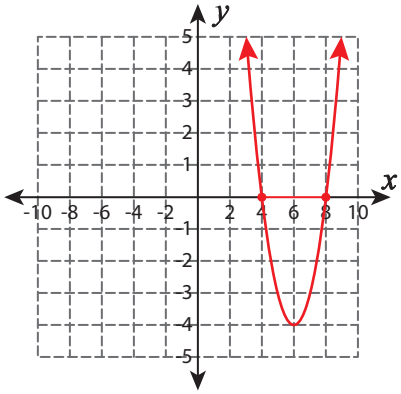
Solve each inequality using the graph.

1) $-2x^2 + 3x + 5 > 0$



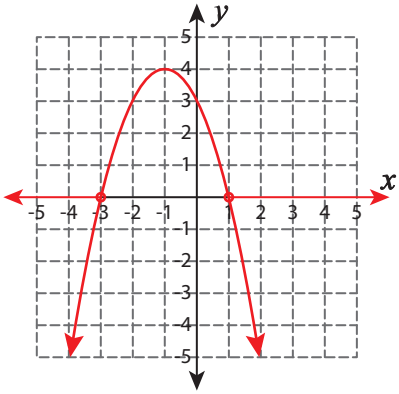
**$-1 < x < \frac{5}{2}$**

2) $x^2 - 12x + 32 \leq 0$



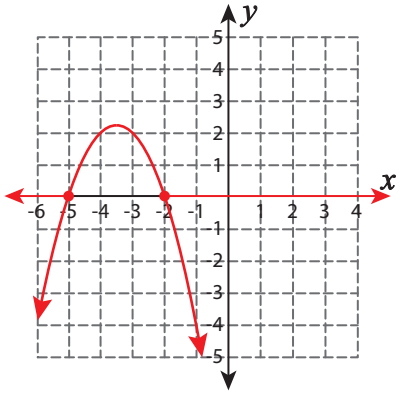
**$4 \leq x \leq 8$**

3) $-x^2 - 2x + 3 < 0$



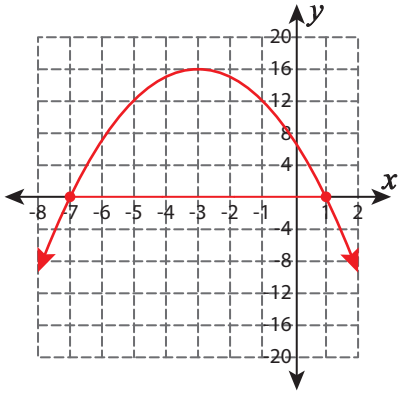
**$x < -3$ or $x > 1$**

4) $-x^2 - 7x - 10 \leq 0$



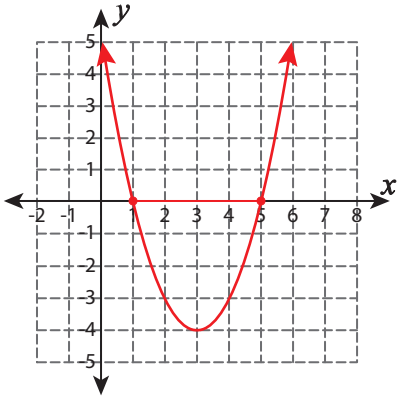
**$x \leq -5$ or $x \geq -2$**

5) $-x^2 - 6x + 7 \geq 0$



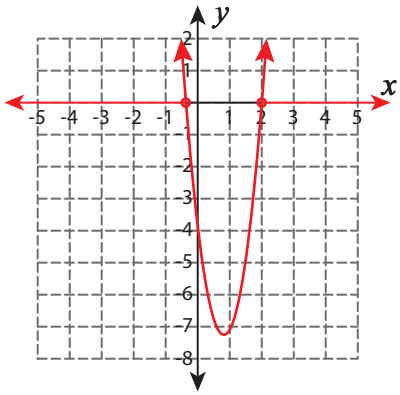
**$-7 \leq x \leq 1$**

6) $x^2 - 6x + 5 \leq 0$



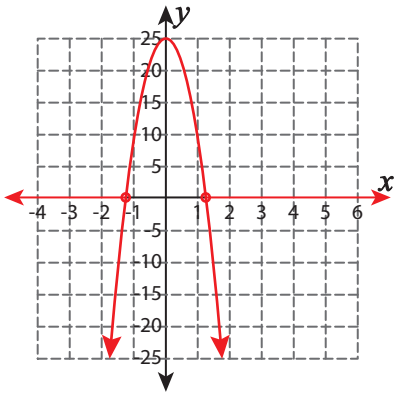
**$1 \leq x \leq 5$**

7) $5x^2 - 8x - 4 > 0$



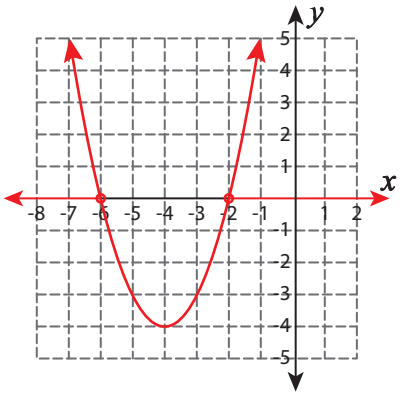
**$x < -\frac{2}{5}$ or $x > 2$**

8) $-16x^2 + 25 < 0$



**$x < -\frac{5}{4}$ or $x > \frac{5}{4}$**

9) $x^2 + 8x + 12 > 0$



**$x < -6$ or $x > -2$**