Algebra 1
9.8 Homework

Graphing Quadratic Inequalities Worksheet

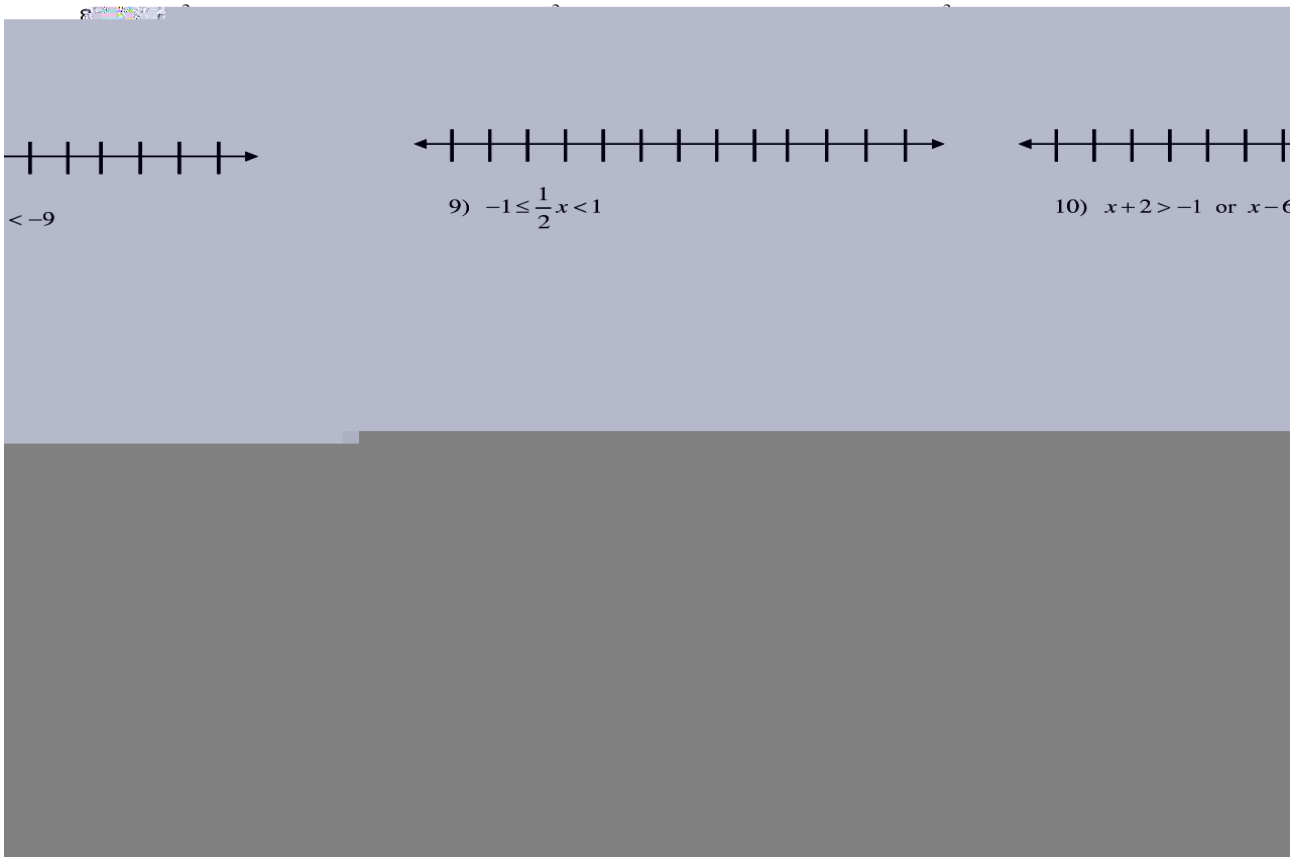
Name_____
Date_____

Use substitution to decide whether the ordered pair is a solution of the inequality.

1. $y < 3x^2 - 8x$; (2, -1)
2. $y \leq x^2 - 5x - 6$; (0, -10)
3. $y \geq -x^2 + 2x - 3$; (-3, 0)
4. $y > -8x^2 + 4x - 6$; (-1, -2)

Use the inequality symbols and shading to match the graph with its inequality.

5. $y > -x^2 + 4x + 2$
6. $y \geq \frac{1}{2}x^2 - 5$
7. $y < -x^2 - 4x - 3$
8. [illegible]



< -9

9) $-1 \leq \frac{1}{2}x < 1$

10) $x + 2 > -1$ or $x - 6$