

COLLEGE REVIEW MATH
SECTION 3C Review Worksheet

Name _____

For each inequality, name the vertex, direction of opening, whether the line drawn is dashed or solid, and if the shaded region is above or below.

1) $y > -3x^2 + 3x - 11$

Vertex: _____

Opening: _____

Line: _____

Shade: _____

2) $f(x) \leq 2|x - 9| + 5$

Vertex: _____

Opening: _____

Line: _____

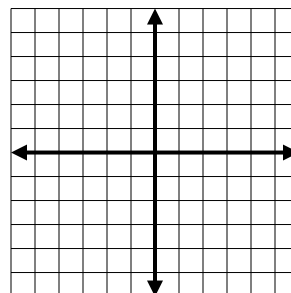
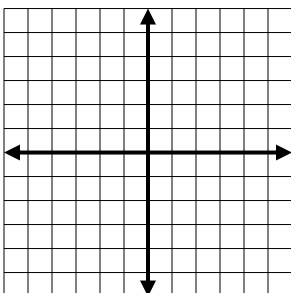
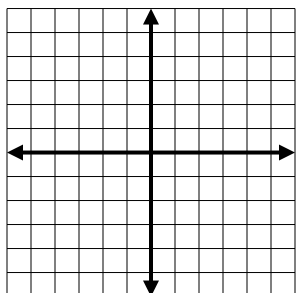
Shade: _____

Graph each inequality.

3) $y > \frac{1}{3}x - 4$

4) $f(x) \leq -2x + 1$

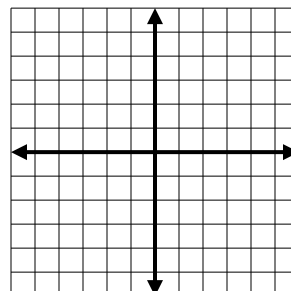
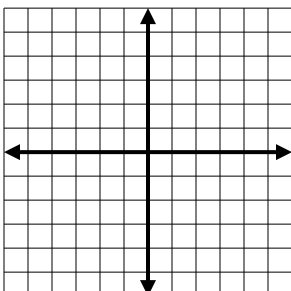
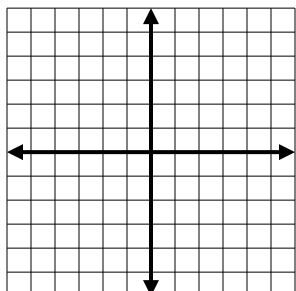
5) $8 + 4y < 2x$



6) $y < |x - 3|$

7) $y \geq -3(x + 1)^2 + 6$

8) $g(x) > x^2 - 8x + 12$

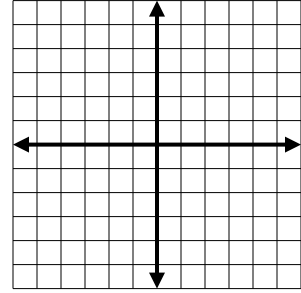
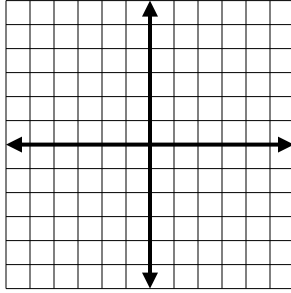
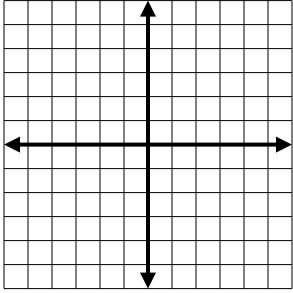


Graph each compound inequality.

9) $|x - 3| \geq 2$

10) $-1 < y < 2$

11) $2 < |x| \leq 4$



Graph each system of inequalities.

12) $y < 3$
 $y > 4x - 5$

14) $y \leq x + 1$
 $y > 2x^2 + 4x - 3$

15) $-2 \leq y \leq 5$
 $2y > 4x + 5$
 $y < -2|x| + 5$

