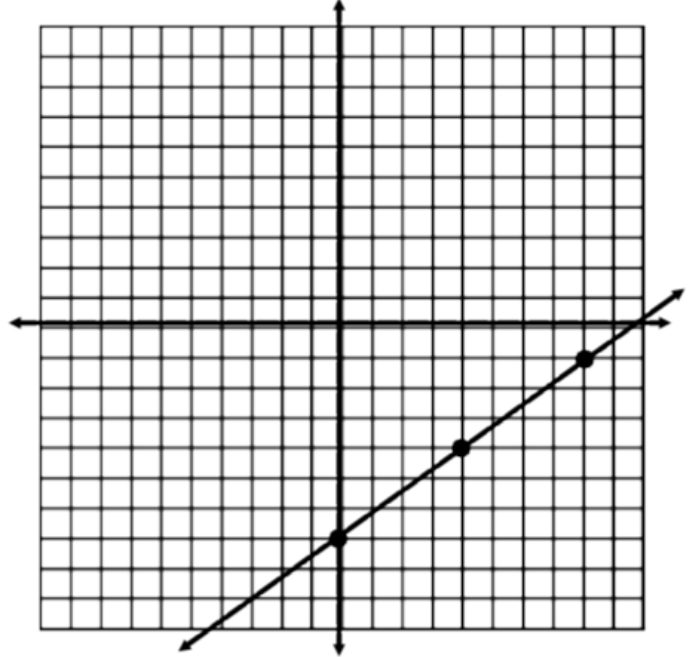


Name: _____

Problem Set 2.1

1) Write the equation that is graphed in point slope, slope intercept, and standard form.



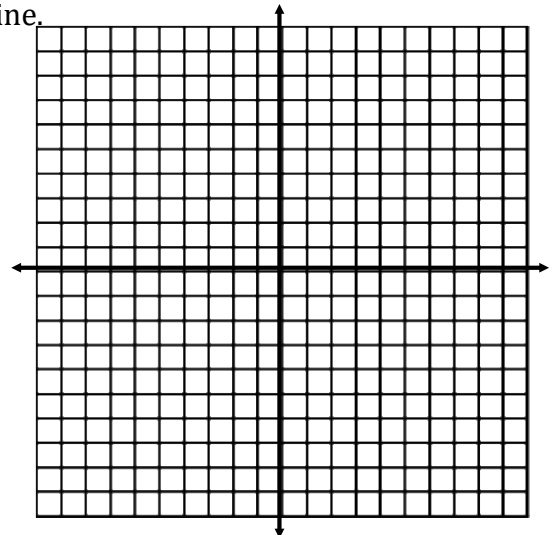
Point Slope: _____

Slope Intercept: _____

Standard: _____

2) Write the equation of the line that is **PERPENDICULAR** to the line $3x - y = 8$ and passes through the point $(-7, 4)$ in **POINT SLOPE FORM**. Box your final answer.

3) Write the equation of the line that contains the points $(-5, 2)$ and $(-4, 1)$ in **SLOPE INTERCEPT FORM**. Box your final answer. Then graph the line.



4 - 6] Graph the quadratic functions by graphing their vertex and at least two other points. Give their axis of symmetry, vertex, y intercept, domain, and range.

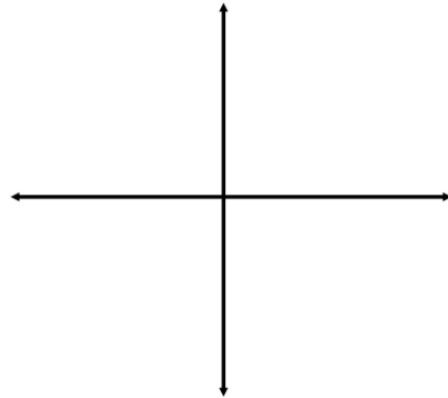
4) $f(x) = -2(x + 3)^2 - 4$

Axis of Symmetry: _____

Vertex: _____

y-intercept: _____

D: _____ R: _____



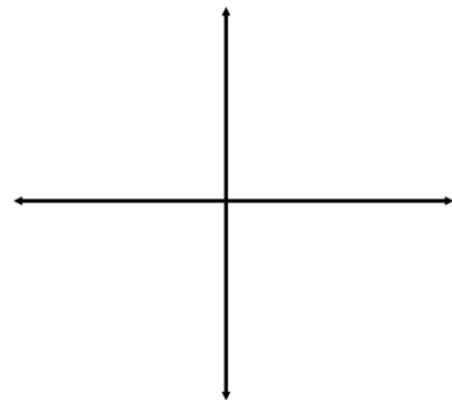
5) $g(x) = x^2 - 10x + 25$

Axis of Symmetry: _____

Vertex: _____

y-intercept: _____

D: _____ R: _____



6) $f(x) = 3(x - 1)(x + 5)$

Axis of Symmetry: _____

Vertex: _____

y-intercept: _____

D: _____ R: _____

