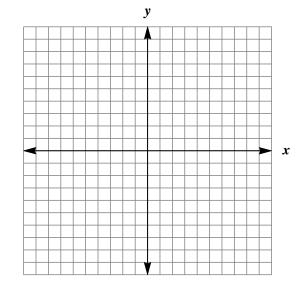
Quiz 1: Version C

First & Last Name: _____ Class: _____

1. Sketch the following piecewise function:

$$f(x) = \begin{cases} -2x - 4 & x \le -4 \\ 3 & x > -4 \end{cases}$$



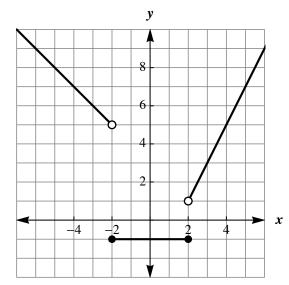
2. For the function in Question 1, evaluate:

$$a. f(-7) =$$

b.
$$f(-4) =$$

$$c. f(3) =$$

3. Write the equation for the following graph:



Challenge Options (required for Honors)

4.	Convert $(6, -3)$ into polar coordinates. Show your work.
5.	Convert (115°, 10) into rectangular (Cartesian) coordinates. Show your work.
6.	Write an example of a polynomial function with at least four terms, even degree, and positive leading coefficient Explain its end behavior.
7.	Write an example of a polynomial function with five terms, a non-zero constant term, odd degree greater than 3, and negative leading coefficient. Explain its end behavior.