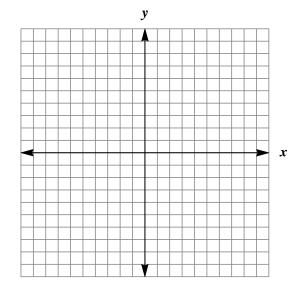
Quiz 1: Version D

First & Last Name: _____ Class: _____

1. Sketch the following piecewise function:

$$f(x) = \begin{cases} -5 & x < -5 \\ -x + 4 & x \ge -5 \end{cases}$$



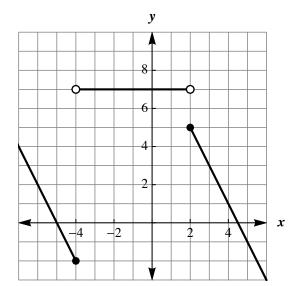
2. For the function in Question 1, evaluate:

$$a. f(-8) =$$

b.
$$f(-5) =$$

$$c. f(0) =$$

3. Write the equation for the following graph:



Challenge Options (required for Honors)

4.	Convert (1, 4) into polar coordinates. Show your work.
5.	Convert (-55° , 12) into rectangular (Cartesian) coordinates. Show your work.
6.	Write an example of a polynomial function with at least three terms, odd degree, and negative leading coefficient Explain its end behavior.
7.	Write an example of a polynomial function with six terms, a non-zero constant term, even degree greater than 6, and positive leading coefficient. Explain its end behavior.