

Name :\_\_\_\_\_

### 110 - College Algebra: Test 1 Extra Credit

**DIRECTIONS: Show all work!** There is a total of 5 points which will be added to Test 1.  
\*\*Print these problems, complete them on *this paper* front or back, and bring them with you to the test!

1. (2 points) Consider the function  $f(x) = |x + 4| - 5$ :

What translations are being done to the basic function  $y = |x|$  to get the graph of  $f(x)$ ?

2. (3 points) Find the equation of a quadratic function with a vertex at the point  $(-1,-5)$  that also contains the point  $(1,3)$