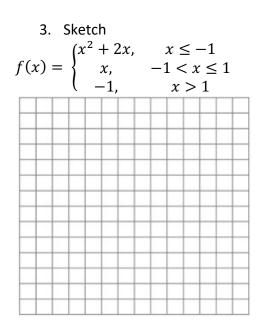
Exam 12 Name: ______ Pre Calculus RH

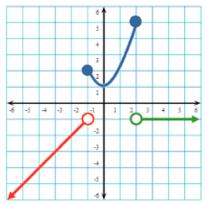
Show your work for full credits.

1. Describe transformations from $y = x^2$ to $y = x^2 - 4x + c$.

2. For every real number x, [x] denotes the greatest integer less than or equal to x. Find all values of x in the interval $2 \le x < 5$ that satisfy $[x]^2 = [x^2]$.



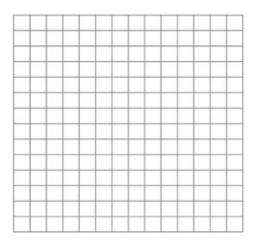
4. Write a formula for the graph of the given piecewise function



5. Solve for *x*. |x| - |x + 4| < 3

6. Solve for *x*.
$$\frac{2x-3}{x+1} \le 1$$

7. Find the area enclosed by the graph of |x| + |y + 2| = 4. (Sketch is optional)



8. Find an inequality involving an absolute value that describes $-5 \le x \le 21$.

9. Let g(x) = g(-x) and h(x) = -h(-x). Show that f(x) is even, odd, or neither.

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