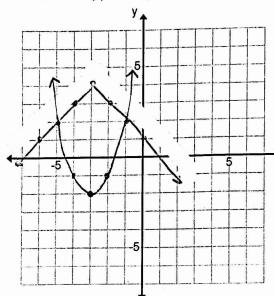
Chapter 1.5 Activity and Notes

1. Find the value(s) of x by graphing the left and right side by hand: $-|x+3|+4=(x+3)^2-2$



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$$(-5,2) \in (-1,2)$$

2. Now check your answers by graphing the functions from #1 on your graphing calculator.



For the following problems, solve for x using your calculator. There could be no answers or 1 or more answers. Round to two decimal places.

3.
$$(x-5)^2 + 2 = \frac{1}{2}x + 3$$
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4.
$$x^3 - 4x - 2 = -|x - 1|$$

 $x = -2.13 = -0.20 = 2.1$

$$5. -3\dot{x} - 2 = x^2 + 3$$

6.
$$2x^4 - 5x^3 - 1 = (x-1)^2 - 8$$

You can also use your graphing calculator to find the graph's positive and negative intervals. For this section look back at your calculator instructions for finding x-intercepts. Find the x-values for the following problems.

7.
$$x^2 - 9 < 0$$
 (AKA negative interval)

8.
$$-x^2 + 8x - 13 > 0$$
 (AKA positive interval)

$$(-3,3)$$

9.
$$-|x+2|+2 \le 0$$
 (be careful of notation)

10.
$$2x^2-5x-9\geq 0$$
 $X-int: -1.21:3.71 $(-\infty, -1.21] \cup [3.71,00)$$

9.
$$-|x+2|+2 \le 0$$
 (be careful of notation)
 $(-00, -4] \cup [0, \infty)$