Name: _____ Date: _____

|x| = distance from zero, always >= 0. The graph is a V. Last two are challenge problems!

1. Evaluate |-7|.

show your work

2. Evaluate |5 - 9|.

show your work

3. f(x) = |x|. Find f(-6).

show your work

4. f(x) = |x - 2|. Find f(5) and f(-1).

show your work

5. f(x) = |x| + 3. What is the minimum value?

show your work

6. f(x) = |x - 4|: where is the vertex of the V?

show your work

7. f(x) = |x + 1| - 2: vertex?

show your work

8. Solve |x| = 8.

show your work

9. Solve |x - 3| = 5. ★ CHALLENGE

show your work

10. Parking: $4 for each hour OR PART of an hour. Cost for 2.5 hours, and why is this a 'step'? ★ CHALLENGE

show your work