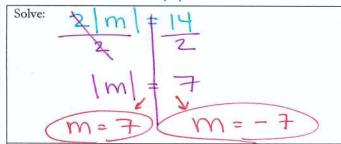
A.REI.11: I can explain why the x-coordinates of the points where the graphs of the equations y=f(x) and y=g(x) intersect are the solutions of the equation f(x)=g(x); find the solutions approximately. Include cases where f(x) and/or g(x) are absolute value functions.

10. Solve and check. Show all work including check:

$$2|m| = 14$$



Check your answer (show your work):

11. Solve and check. Show all work including check:

$$2|x+1|+4=12$$

Solve: Check your answer (show your work):

12. Barry's walkie-talkie has a range of 2 miles. Barry is traveling on a straight highway and is at mile marker 207.)

| x-big # = small

Part A: choose the correct equation to model this situation

$$|x-2| = 207$$

$$Bx = 2 - 207$$

$$|207 - x| = 2$$

$$\bigcirc 2 = |x - 207|$$

Part B: Solve the equation for the maximum and minimum mile marker that Barry's walkie-talkie will reach.

$$|x-207| = 2$$

 $|x-207| = 2$
 $|x-2$

$$X - 207 + -2$$

 $+207 + 207$
 $X = 205$
mile
marker