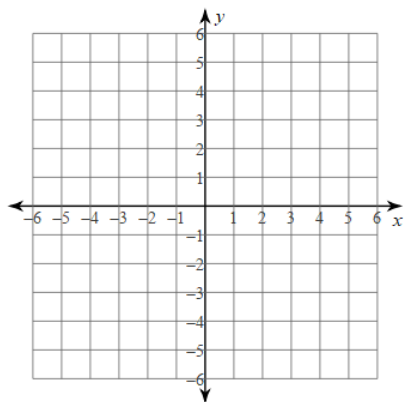


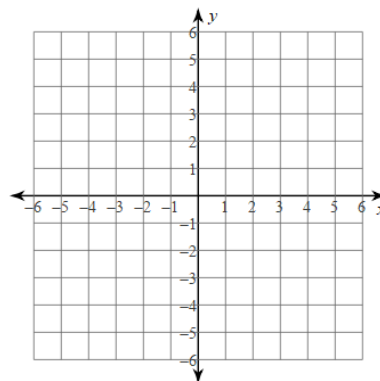
- 1.) On a map's coordinate grid, Merryville is located at (2, 4) and Sallytown is located at (2, 2). Bluxberg is the midpoint between Merryville and Sallytown. What is the distance from Merryville to Bluxberg? (One map unit equals one mile.)

Graph each absolute value equation. Plot at least 5 points total. Show all work.

2)  $y = -|x + 2| + 3$



3)  $y = |x - 4| - 3$



Write the slope-intercept form of the line with the given information. Show all work.

4) through:  $(-3, -5)$ , slope = undefined

5) through:  $(-1, -5)$ , slope =  $-\frac{5}{4}$

6) through:  $(-4, -5)$  and  $(1, 2)$

7) through:  $(-1, 0)$  and  $(4, 5)$

8) through:  $(-5, -2)$ , parallel to  $y = \frac{7}{5}x + 2$

9) through:  $(-3, 4)$ , perp. to  $y = \frac{5}{6}x - 5$

10) through:  $(-5, -5)$ , perp. to  $y = 0$

11) through:  $(-4, -4)$ , perp. to  $y = -\frac{4}{9}x - 3$