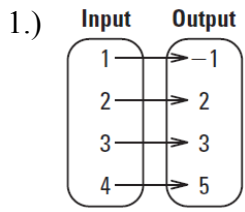


Chapter 2 Review Worksheet

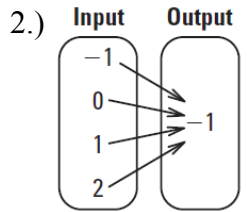
Name: _____

A.) Tell whether the relation is a function. B.) If it is a function, identify its domain and range. If it is not a function explain why it is not.



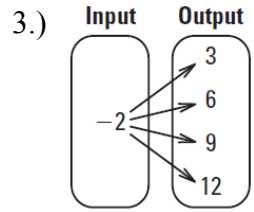
A.) function?

B.)



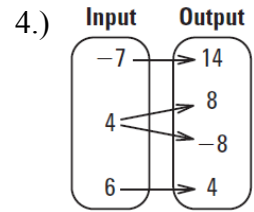
A.) function?

B.)



A.) function?

B.)



A.) function?

B.)

Tell whether the lines are *parallel*, *perpendicular*, or *neither*. You must have work to back your answer.

5.) Line 1: through (5, -4) and (-4, 2)
Line 2: through (-5, -4) and (-2, -2)

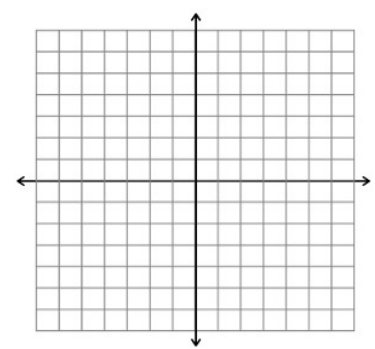
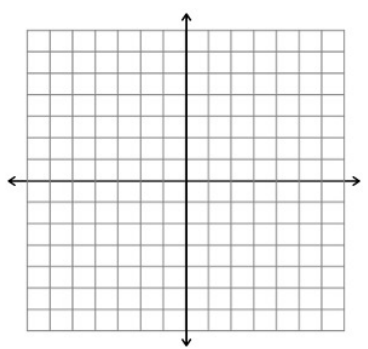
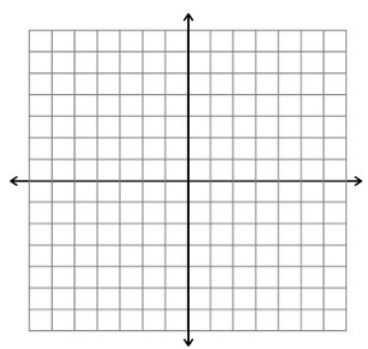
6.) Line 1: through (0, -4) and (-2, 2)
Line 2: through (4, -3) and (5, -6)

Graph the equation using any method. Make it clear how you graphed the equation (show your x/y chart, identify your slope/y-intercept, or identify your x/y intercepts).

7.) $x + 2y = -6$

8.) $\frac{2}{3}x - 1 = y$

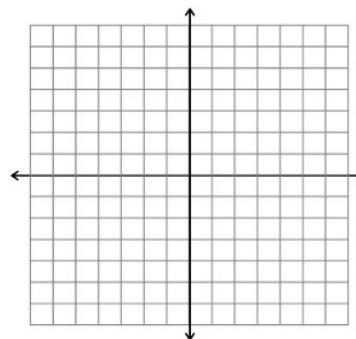
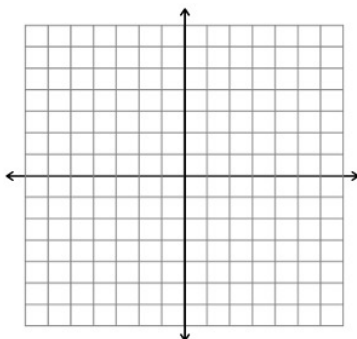
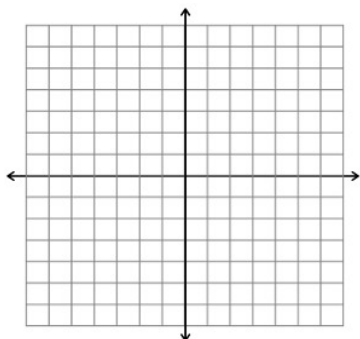
9.) $-2x = 6y + 18$



10.) $-3y + 12 = 0$

11.) $-8 = 2x$

12.) $3x + 4y = -8$



Write an equation in slope-intercept form AND standard form that passes through the given point and satisfies the given criteria, or that passes through the given points. Use integer values for A , B , and C in standard form.

13.) $(3, 6), m = -\frac{1}{4}$

14.) $(-2, 3)$; parallel to $-8x + 2y = -6$

15.) $(7, -2), m = 0$

16.) $(-1, -3), (2, 7)$

17.) $(4, -2)$; perpendicular to $y = \frac{2}{3}x - 8$

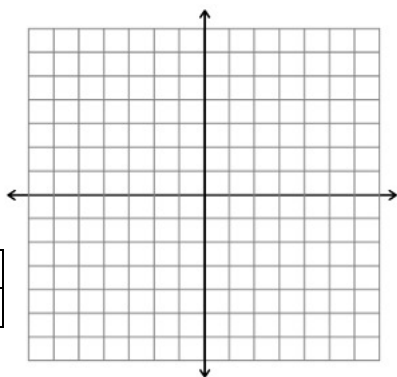
Identify the functions vertex and whether it opens up or down. Then use the table to graph the function. Compare the graph with the graph of $y = |x|$.

18.) $y = 3|x + 1| - 2$

vertex:

opens:

x					
y					



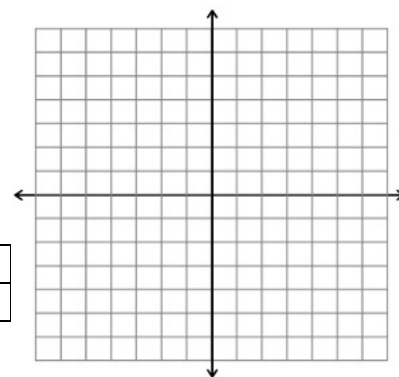
comparison:

19.) $y = -\frac{1}{2}|x + 2| + 3$

vertex:

opens:

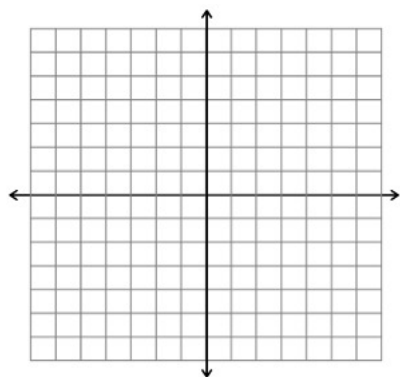
x					
y					



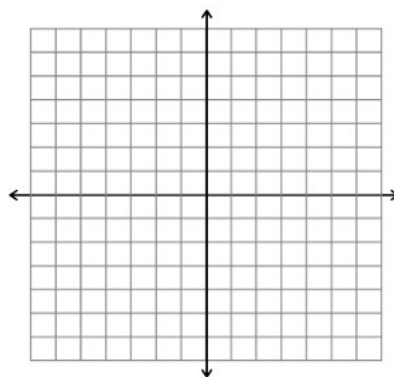
comparison:

Graph the inequality in a coordinate plane.

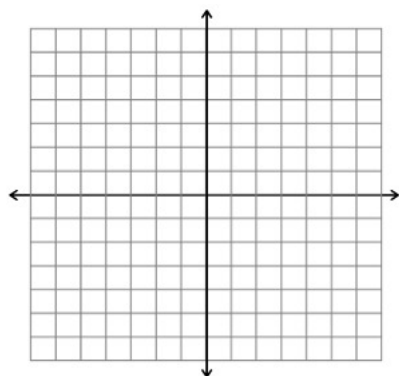
20.) $x + 2y > 8$



21.) $-x - 4y \leq 12$



22.) $y < |x + 1|$



23.) $y \geq 3|x - 2| - 1$

