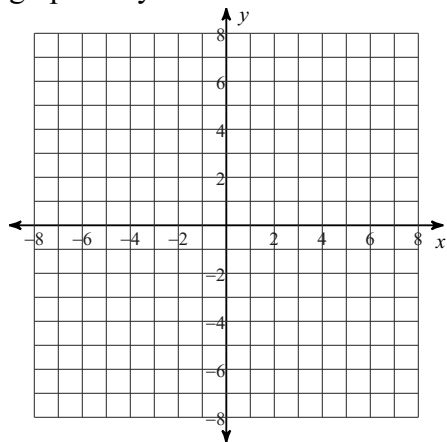


DAY 2 INCLASS

- 1) What is a linear function?
- 2) What does "key features" mean?
- 3) What is slope-intercept form of a linear function and what key features does it tell us?
- 4) Are there any other key features of linear functions? If so, how could we use slope-intercept form to find it?
- 5) So when you are asked to find any key features of a linear function, what are you looking for?

SLOPE REMINDERS:

- 6) Explain how to find the slope of a line graphically.

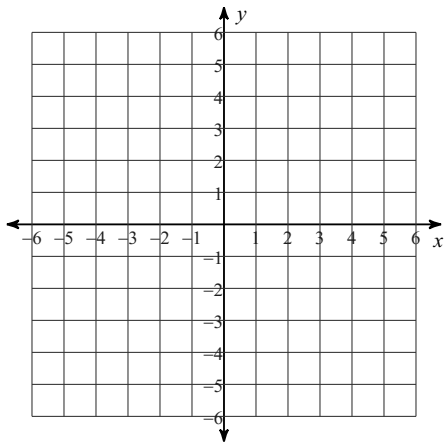


- 7) Explain how to find the slope of a line algebraically.

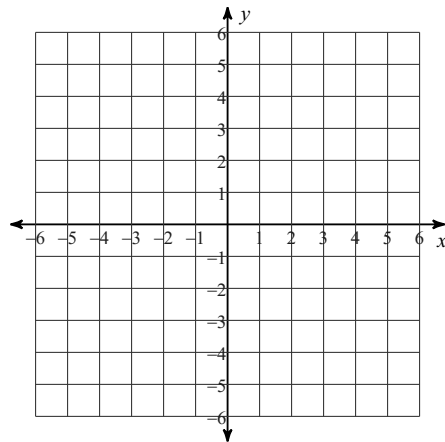
Slope Formula:

Sketch the graph of each linear function. Then list any key features of the graph.

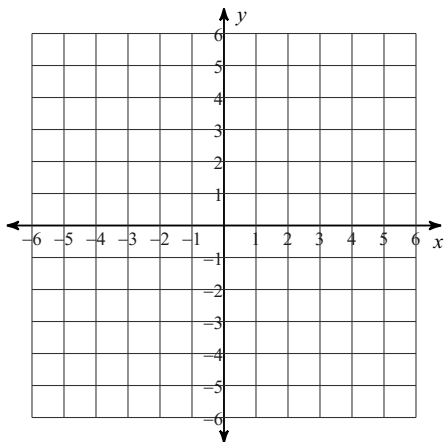
8) $-2 + x = y$



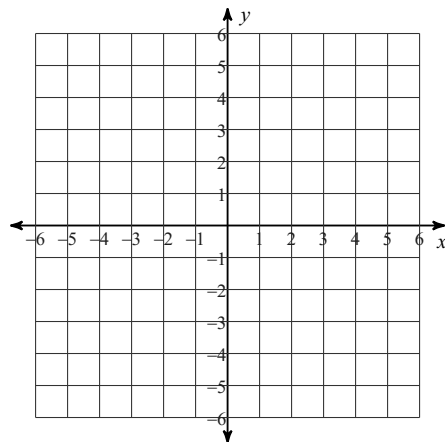
9) $-3x = 2 - y$



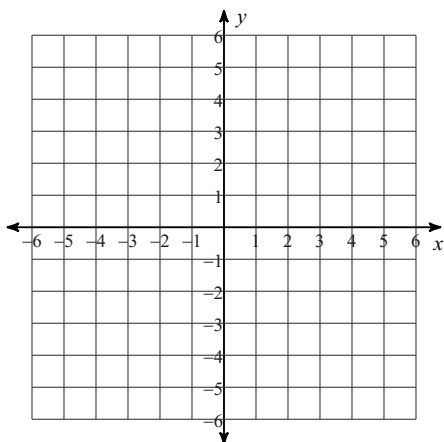
10) $2 = -2y - x$



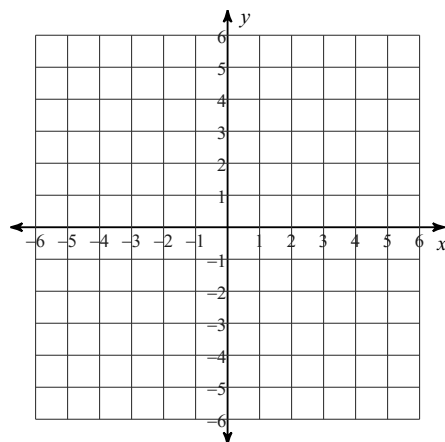
11) $-y = 4x - 1$



12) $-1 - x = 0$



13) $3 = -y$



Find the slope of the linear function that passes through the given intercepts. Then write an equation for that linear function.

14) $(2,0)$ & $(0,-1)$

15) $(0,-5)$ & $(-3,0)$

Find the solutions to each system below algebraically.

16) $y = 8x - 24$
 $y = 8$

17) $y - 3 = x$
 $-7x + y - 3 = 0$

18) $y = -4x - 2$
 $8x + 2y = 0$

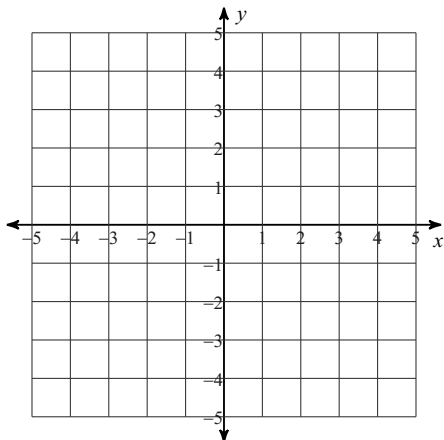
19) $y = x - 2$
 $-3x + 3y = -6$

Describe how the solution to each system of equations above would have been represented on a graph. To help you may want to draw a quick sketch for each problem.

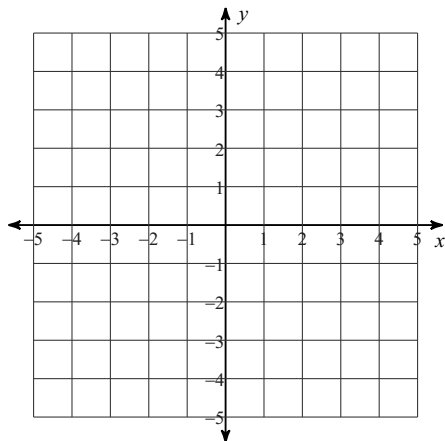
20)

Solve each system of linear equations below graphically.

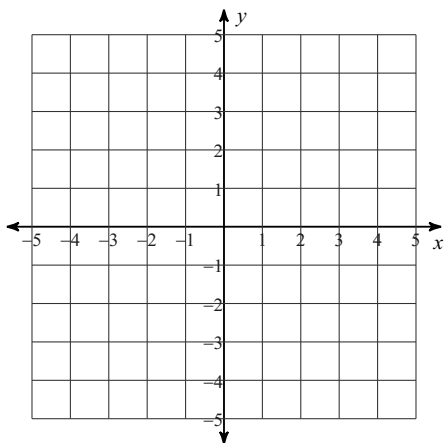
21) $2y - 8 - 5x = 0$
 $4 = -x - 2y$



22) $-\frac{1}{4}y = -1 - \frac{1}{16}x$
 $0 = y + x + 1$



23) $-2y - 3x = 8$
 $4 + \frac{3}{2}x = -y$



24) $5x - 4 = -4y$
 $-12 + 5x = -4y$

