

Solve each system of linear equations.

1) $4x + 4y = 0$
 $8x + 3y = 10$

2) $4x - 2y = -2$
 $-x - 6y = -6$

3) $-5x + 8y = -11$
 $5x - 8y = 14$

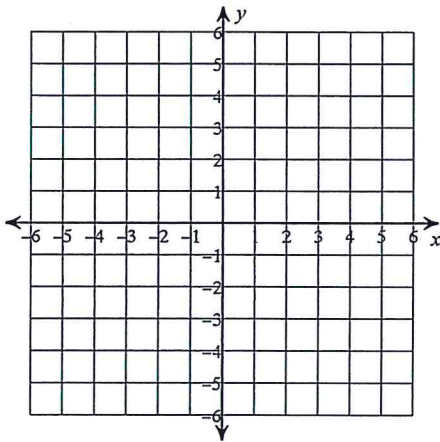
4) $x - 3y = -15$
 $-x + 3y = 15$

5) Find the intercepts of: $7x - 3y = 42$

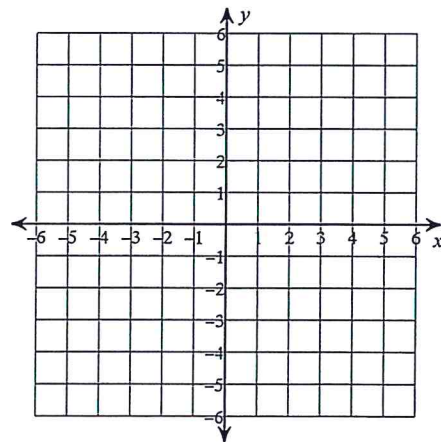
6) Find the intercepts of: $4x + 5y = 10$

Sketch the graph of each line.

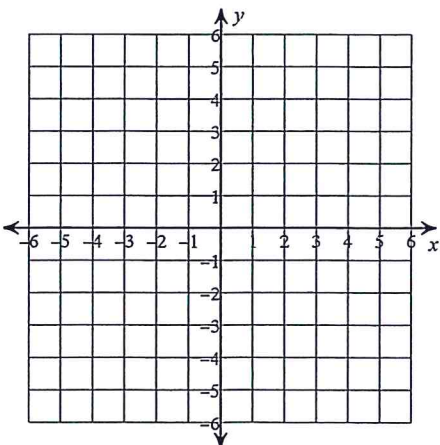
7) $x + 2y = 6$



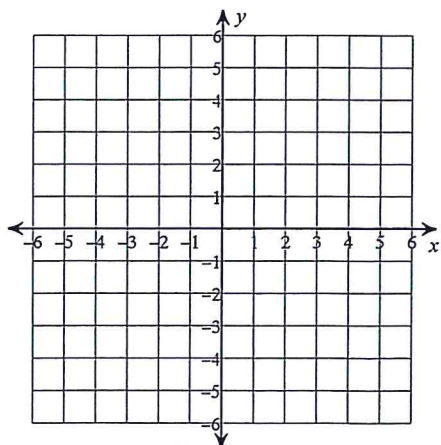
8) $2x - y = -4$



9) $y = \frac{8}{3}x - 5$

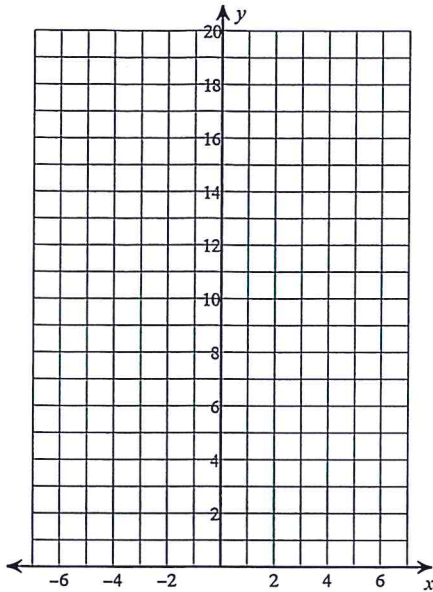


10) $y = -\frac{3}{4}x + 2$

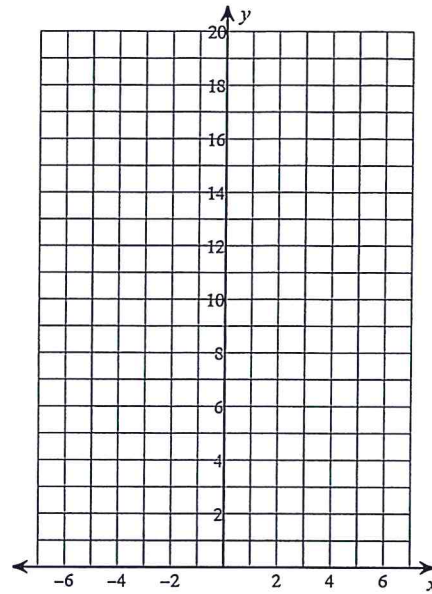


Sketch the graph of the function.

11) $y = \frac{1}{4} \cdot 2^x$



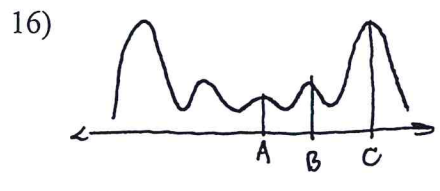
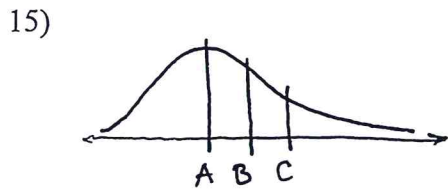
12) $y = 4 \cdot 2^x$



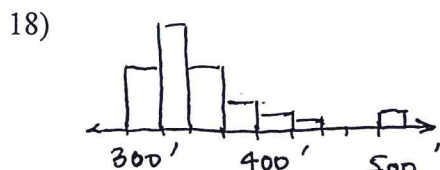
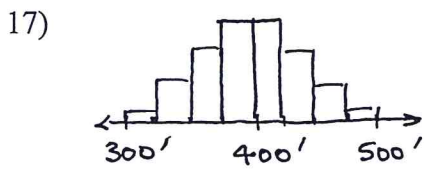
13) The population of Carniverous Turkeys in Annadel campus is decreasing exponentially. If the current population is 72 and they are decreasing by 3% each year, write an equation to model the population for any given year.

14) The population of Rabid Turtles on the SRHS campus is increasing exponentially. If the current population is 472 and they are increasing by 17% each week, write an equation to model the population for any given week.

For the graph shown, determine which letter represents the mean, meadian and mode.



Describe the distribution of distances that Home Runs traveled for an MLB player:



Describe the association between hours of TV watched per week and Math 1 test score.

