

LINEAR EQUATIONS REVIEW

LEARNING GOAL

1. I can graph linear equations by identifying the **slope** and **y-intercept**

SLOPE- INTERCEPT FORM

$$y = mx + b$$

m : slope $\frac{\text{rise}}{\text{run}}$
 b : y -intercept

STANDARD FORM

$$Ax + By = C$$

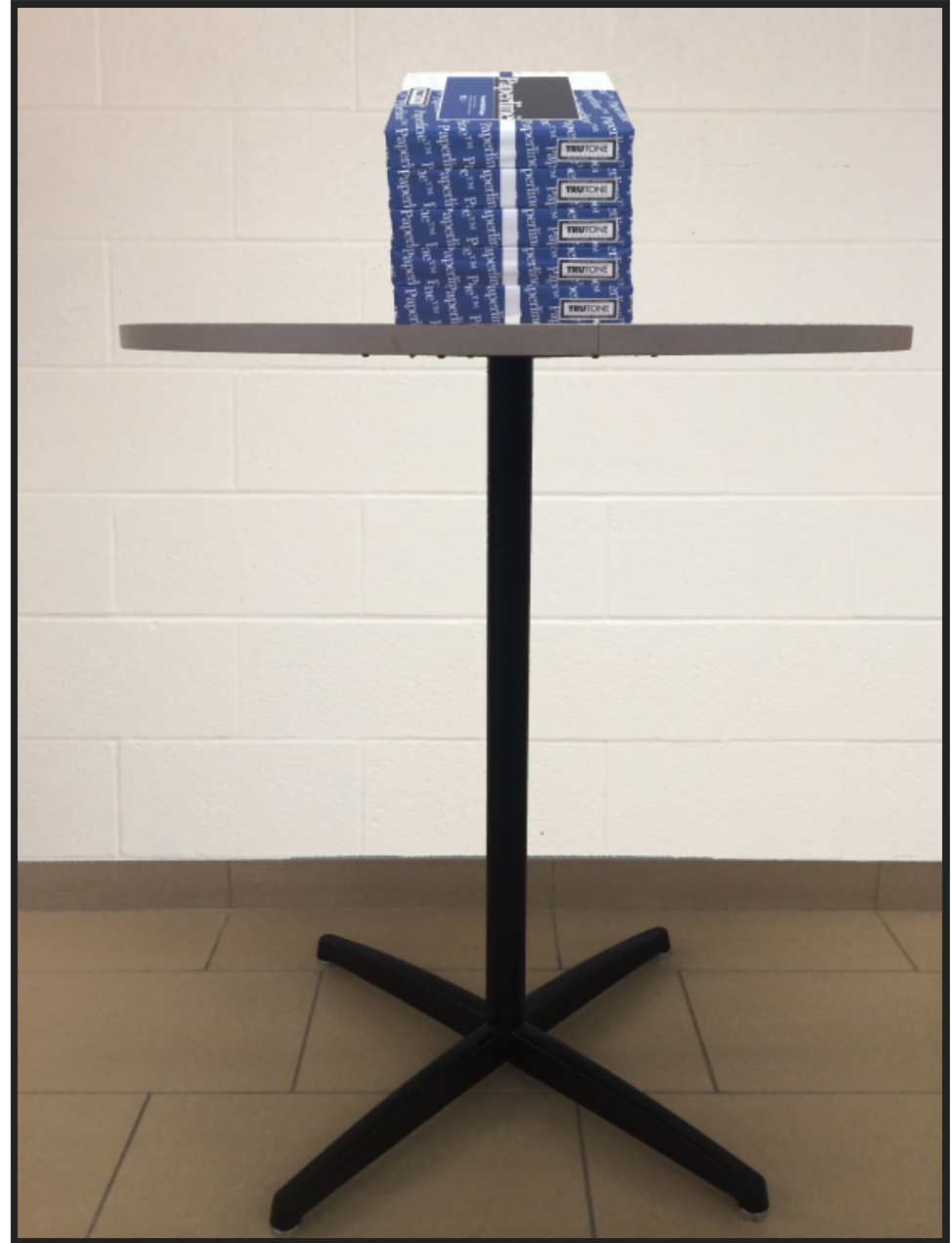
POINT-SLOPE FORM

$$y - y_1 = m(x - x_1)$$

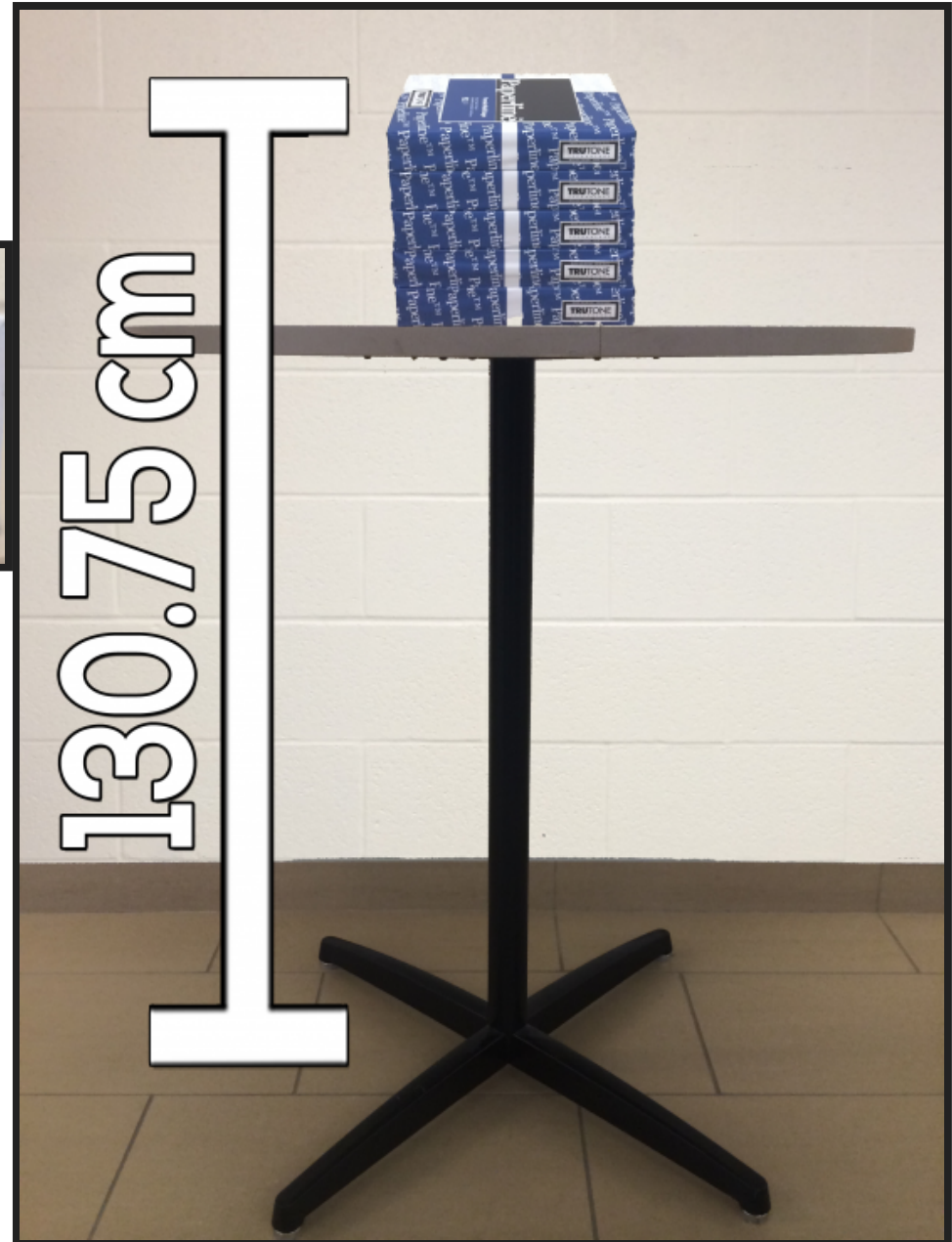
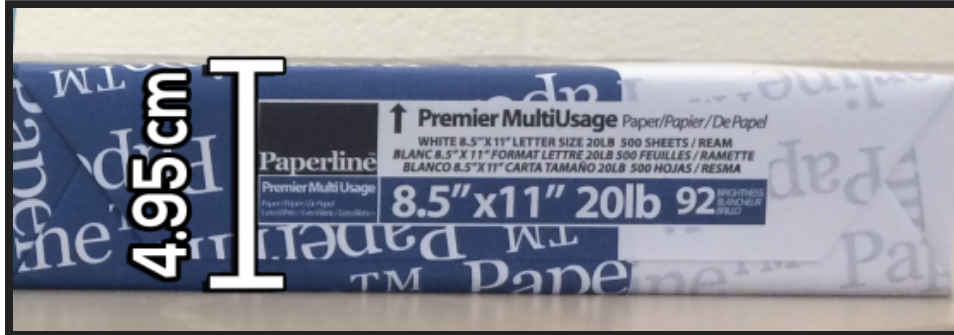
m : slope
 (x_1, y_1) : a point
on the line

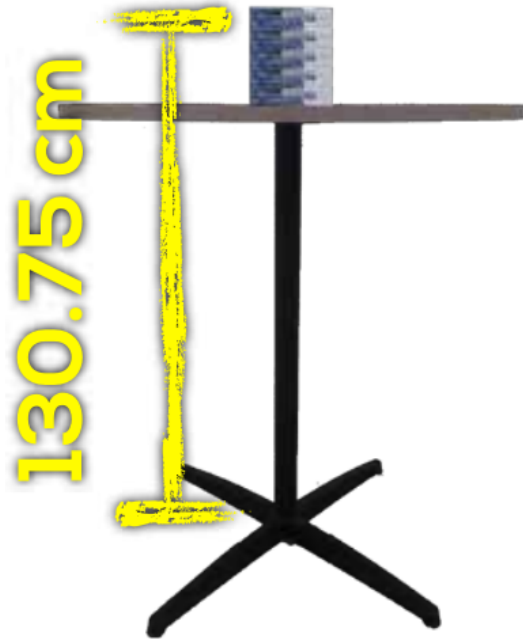
WHAT QUESTION MIGHT WE ASK?

Directions: Look at the image and think about what question you might ask.



Here is some more information about this situation.





How tall is the table?



4.95 cm



MAKE SOME PREDICTIONS

TOO LOW

BEST GUESS

TOO HIGH

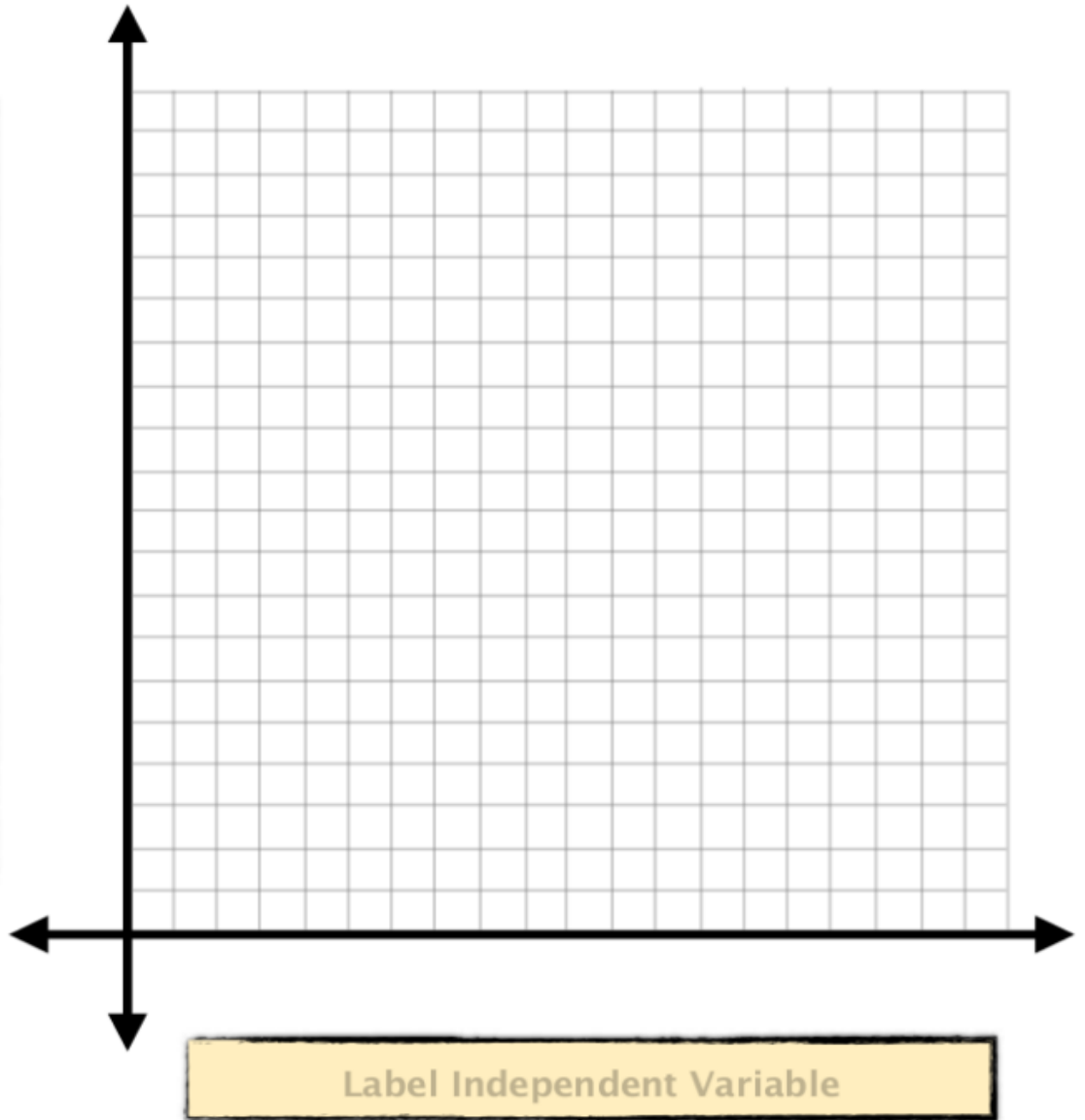
Represent the relationship between **height** and **number of paper packs** as:

Independent	Dependent
0	
1	
2	
3	
4	
5	
6	

Label Dependent Variable

EQUATION

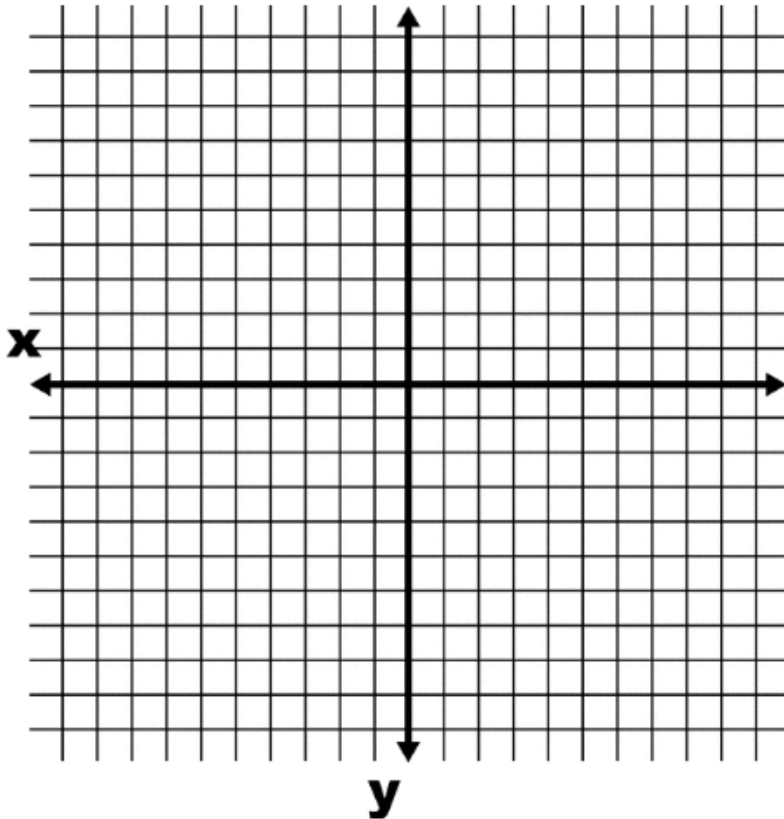
Label Independent Variable



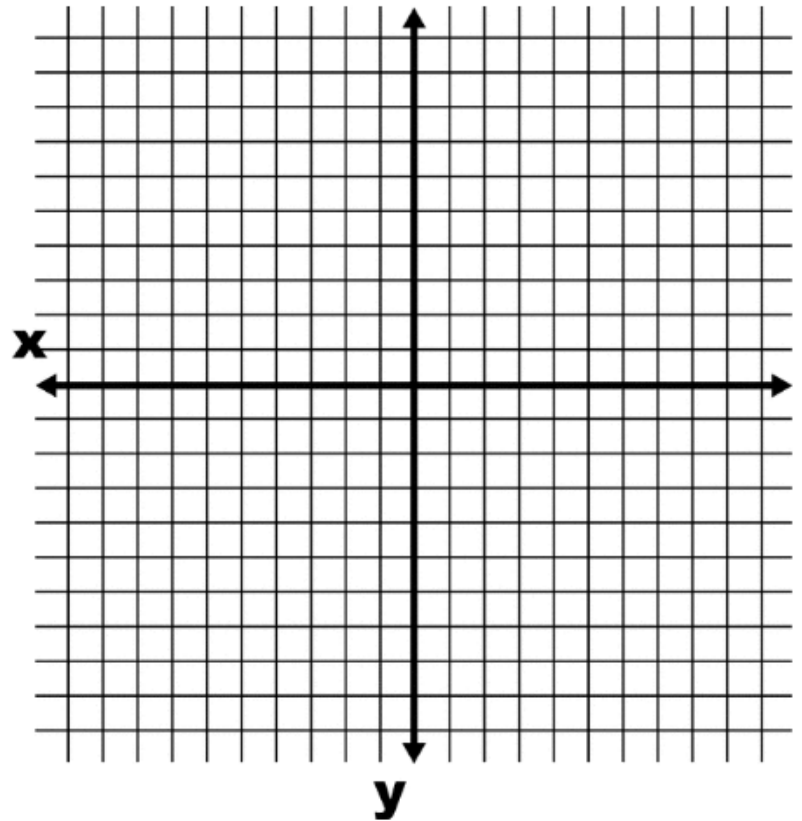
GRAPHING LINEAR EQUATIONS EXAMPLES

Directions: Graph each line.

1. $y = 3x + 4$

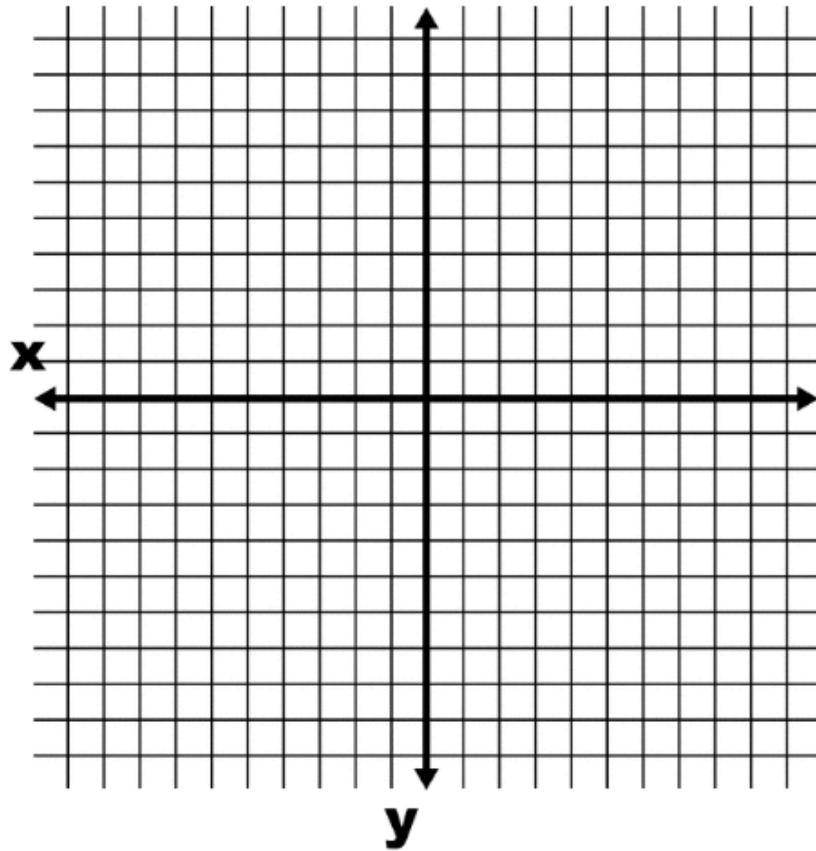


2. $y = -3x + 4$

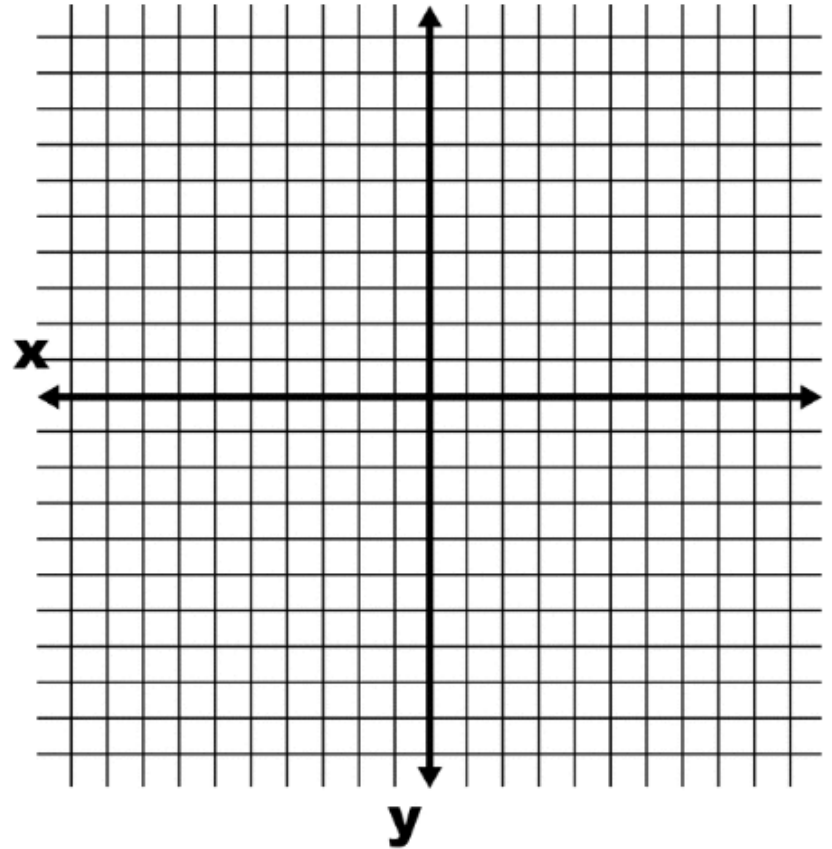


EXERCISES

3. $y = \frac{1}{3}x + 4$

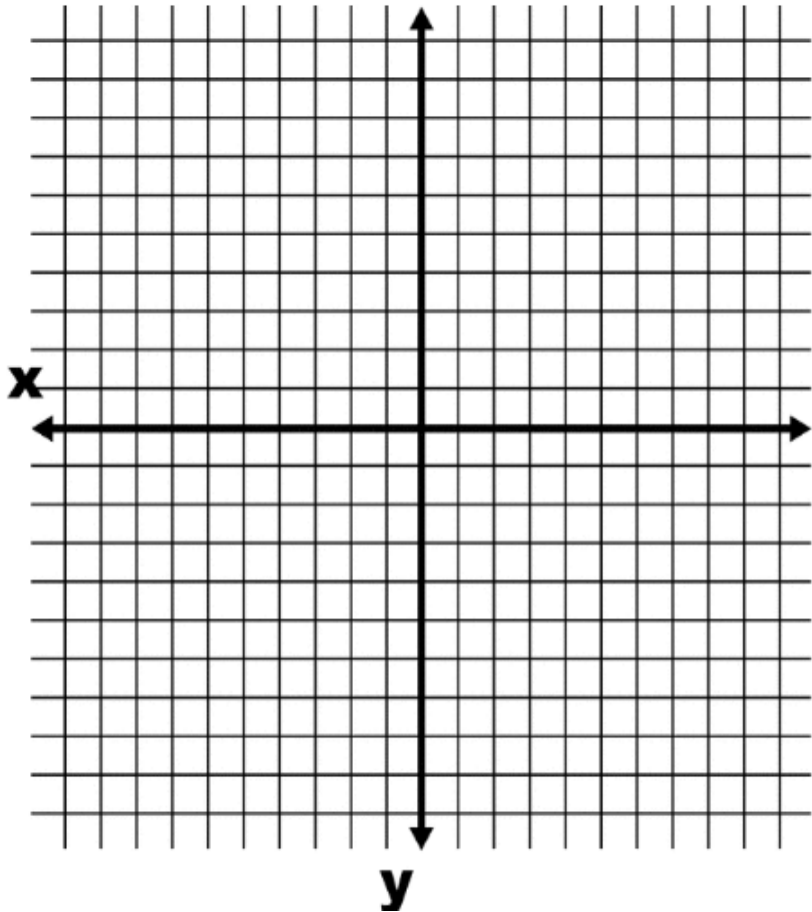


4. $y - 5x = -1$



EXERCISES

5. $4y = 16x - 24$



6. $y + 4 = -2x + 2$

