

For #1-3, write the equation of the line described in both slope-intercept form and standard form with integer coefficients. Show all work/steps to justify your answers.

1. The slope of the line is  $\frac{2}{3}$  and the y-intercept is  $(0, 2)$ .

Slope-Intercept: \_\_\_\_\_ Standard: \_\_\_\_\_

2. The line passes through the points  $(-3, 5)$  and  $(1, 2)$ .

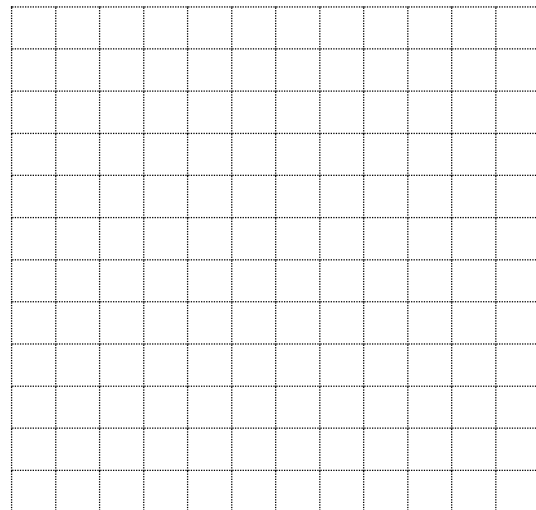
Slope-Intercept: \_\_\_\_\_ Standard: \_\_\_\_\_

3. The line passes through  $(6, 0)$  and is parallel to  $-x + 2y = 2$ .

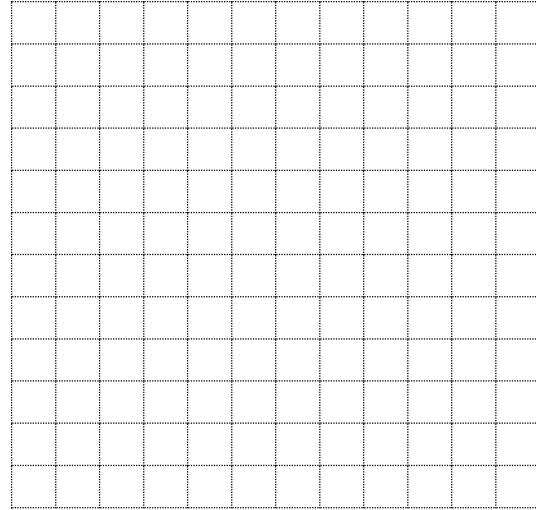
Slope-Intercept: \_\_\_\_\_ Standard: \_\_\_\_\_

4. Sketch the graph of  $y = -\frac{4}{5}x + 1$ .

Completely label your graph.

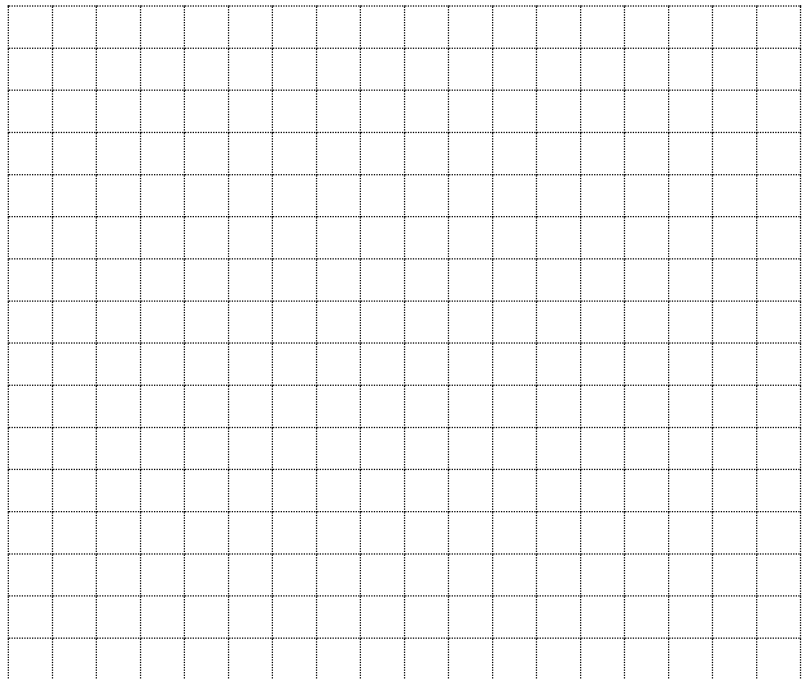


5. Sketch the graph of the line that has a slope of 3 and passes through  $(-3, -5)$ . Write the equation of this line in slope-intercept form. Show all work and completely label your graph.



- 6A. Construct a scatter plot of the data in the table. (USE TAILS!)
- 6B. Find a linear model that you think best represents the data. Make sure you draw this line on your graph. Identify the points you used, show all work, and explain your model.

Age In Years	Height In Inches
1	25
5	38
8	45
10	52
13	60
14	64



- 6C. Use your model to predict the height of this boy at 18 years old.