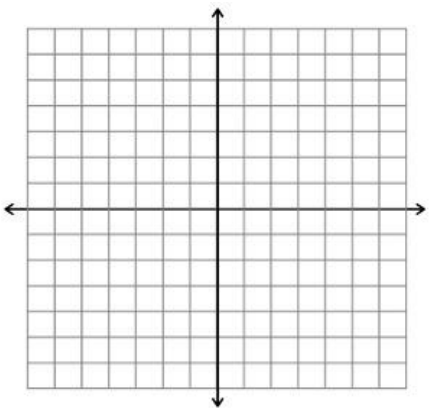
Assignment 6.4 – Slope-Intercept Form

1) Write the equation in point intercept form which passes through the points (0, 4) and (5, 3). (Hint...the y-intercept is given in this question!)

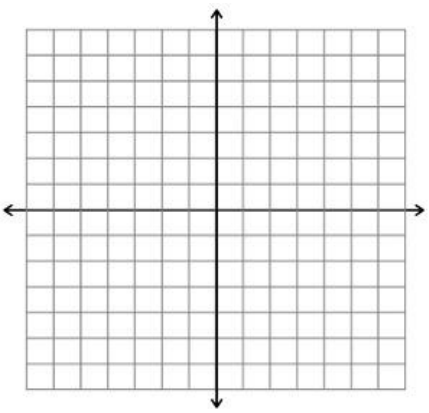
2) Write the equation in point intercept form which passes through the points (-8, -7) and (2, 4) and has a y-intercept of $\frac{9}{5}$.

3) Sketch the graph,

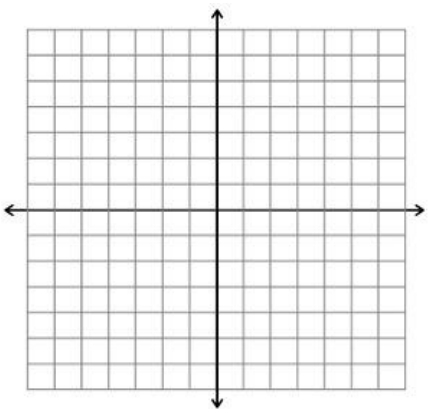
a. y = 2x – 5



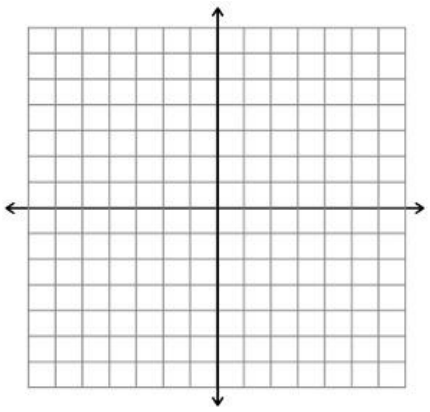
b. y = $-\frac{2}{5}x$ + 6



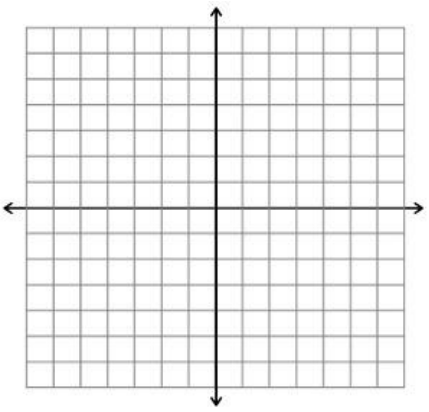
c. y = 2



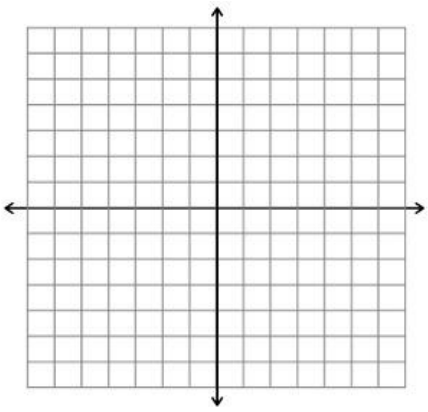
d. y = 5x



e. y = -6x – 5

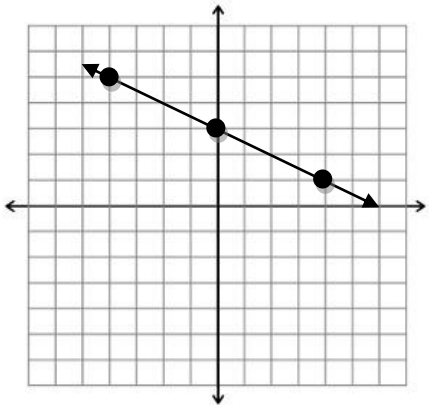


f. y = $\frac{1}{6}x$ + 3

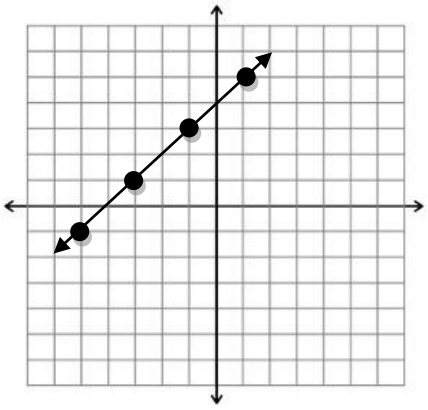


4) Write the equation of each graph in slope-intercept form.

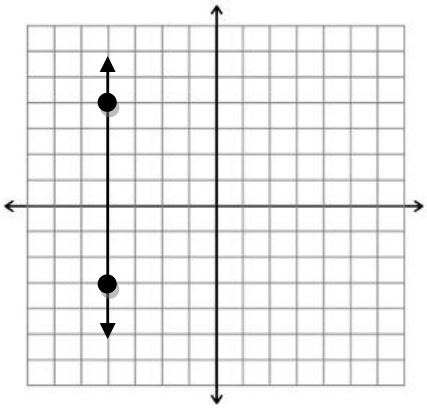
a.



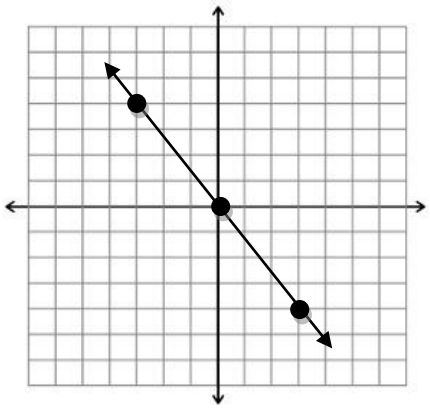
b.



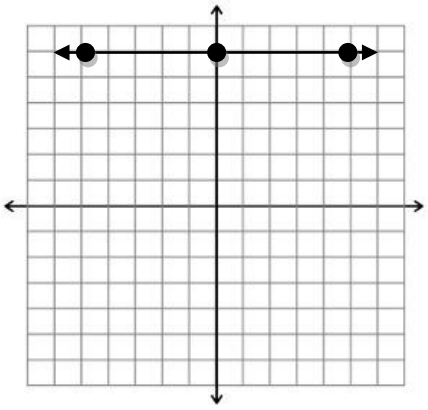
c.



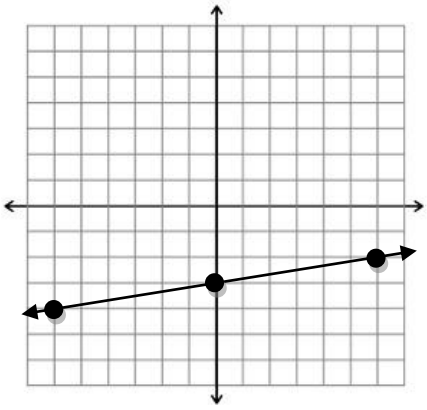
d.



e.



f.



5) State the equation of the linear relation that is parallel to the line y = 3x + 8, and crosses the y axis at -2.

6) State the equation of the linear relation that is perpendicular to the line y = 5x – 1, and that shares the same y intercept.