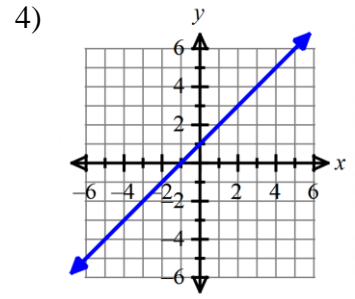
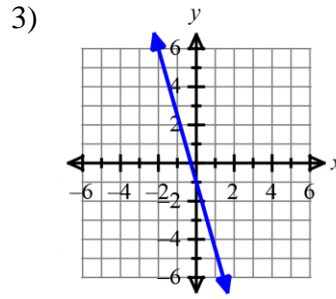
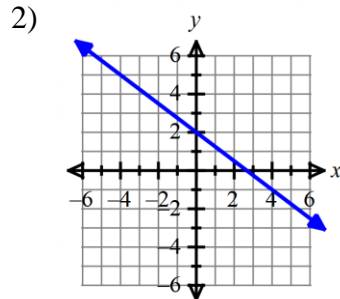
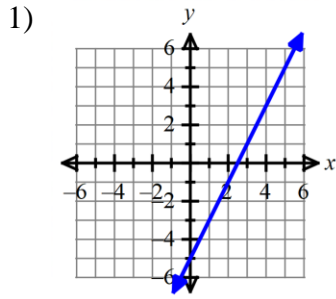


Algebra 1
2.1 Worksheet

Name: _____ Per: _____

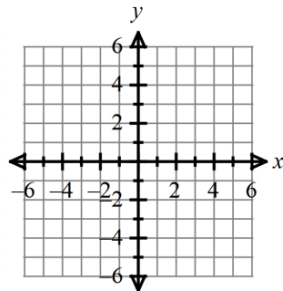
For # 1 – 4, match graph to its to the correct equation in the box below. You will not use every equation.



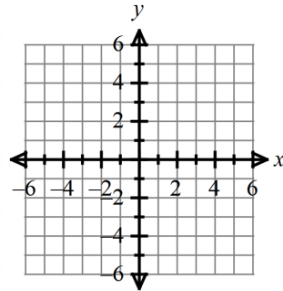
- | | | | |
|-----------------|----------------------------|----------------------------|---------------------------|
| A) $y = x + 1$ | B) $y = 2x + 5$ | C) $y = \frac{3}{4}x + 2$ | D) $y = \frac{7}{2}x - 1$ |
| E) $y = -x + 1$ | F) $y = -\frac{7}{2}x - 1$ | G) $y = -\frac{3}{4}x + 2$ | H) $y = 2x - 5$ |

For #5 – 10, sketch the graph of each linear equation.

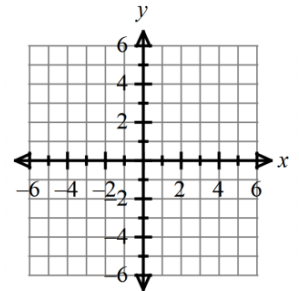
5) $y = \frac{3}{5}x - 3$



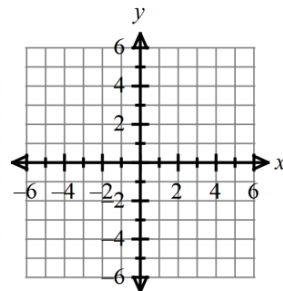
6) $y = 2x + 3$



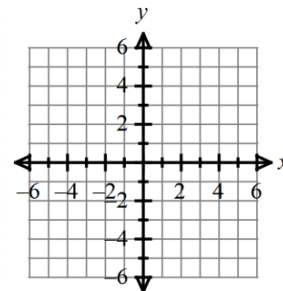
7) $y = -\frac{1}{4}x$



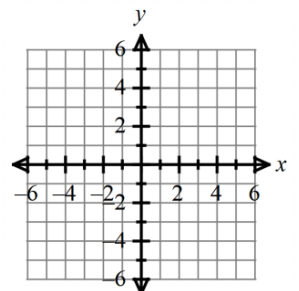
8) $y = x + 2$



9) $y = -4x + 2$



10) $y = x$



11) Find the slope and y-intercept of the line $3x - 5y = -15$.

12) Aisha and Carolina each sketch a graph of the linear equation $y = -\frac{3}{4}x + 2$. Both students start by correctly plotting the y-intercept at (0, 2). Aisha then uses the slope to find a second point by moving down three units and to the right four units from the y-intercept. Caroline uses the slope to find a second point by moving up three units and the left four units from the y-intercept. Will their two graphs look the same? Explain your reasoning.