Algebra 1 B **Name** _____

Unit 3 Review **Period** _____ **Date** _____

Objective 1 – Identify, describe, and/or use constant rates of change

1. Claire makes chocolate candies and sells them. If she sells 100 candies she makes $20 profit. She would make $220 if she sold 500 candies.

   x = _____ y = _____

   a.) Identify the rate of change.

   b.) Describe what your answer in part *a* means.

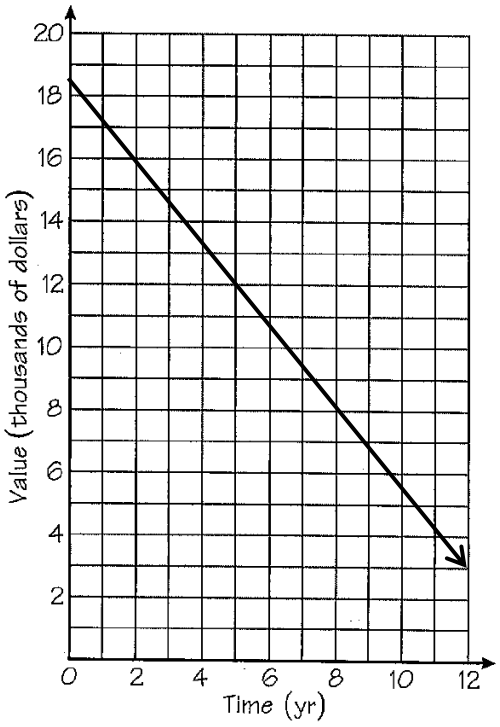
   c.) How much would she profit would Claire make if she sold 150 candies?

2. The graph at the right shows the depreciation of an automobile over time. Use the graph to answer the questions below.

   a.) Identify the rate of change.

   b.) Describe what your answer in part *a* means.

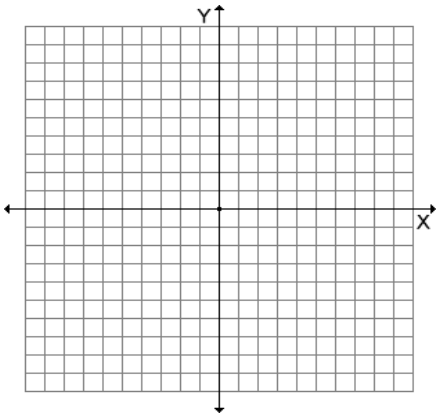
   c.) What would the car be worth in 16 years?



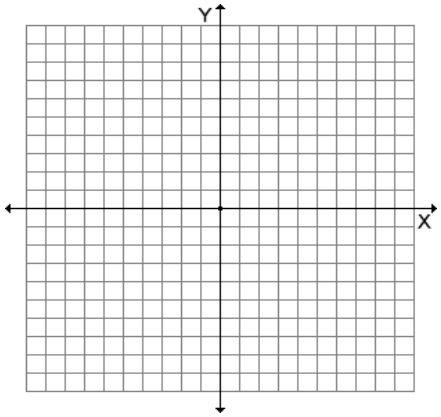
Objective 2 – Graph an equation in slope-intercept form

Graph each equation.

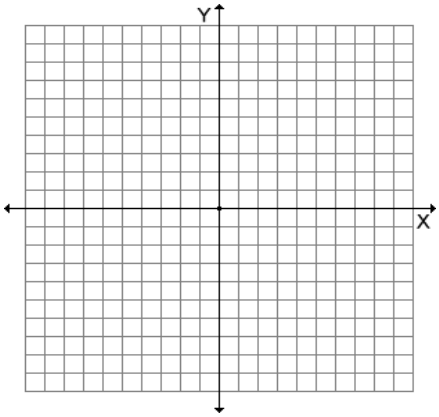
3. $y = 3x - 2$



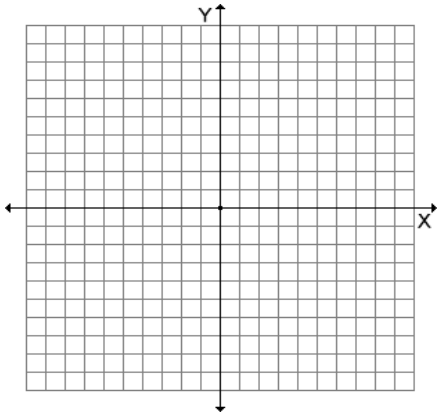
4. $y = -\frac{1}{2}x + 3$



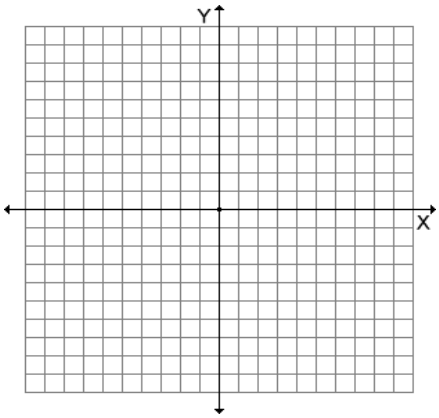
5. $y = \frac{4}{5}x$



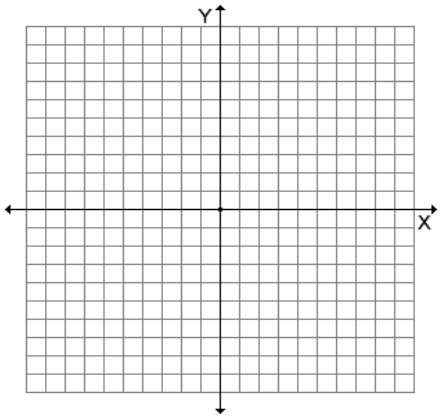
6. $y = x + 2$



7. $y = -x - 4$



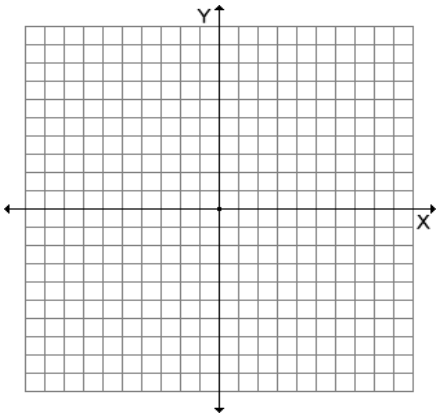
8. $y = -\frac{5}{2}x - 1$



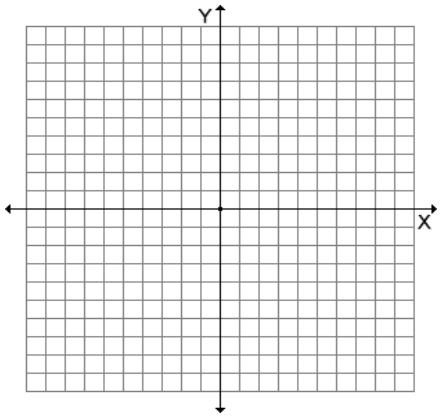
Objective 3 – Graph an equation in standard form

Graph each equation.

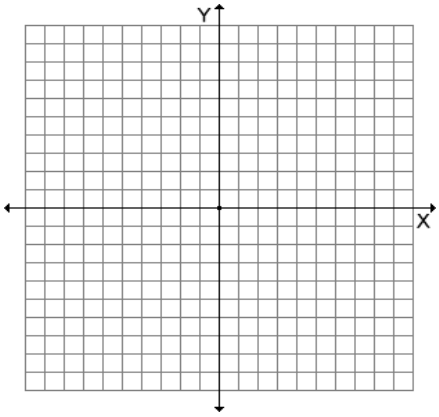
9. $2x - y = -8$



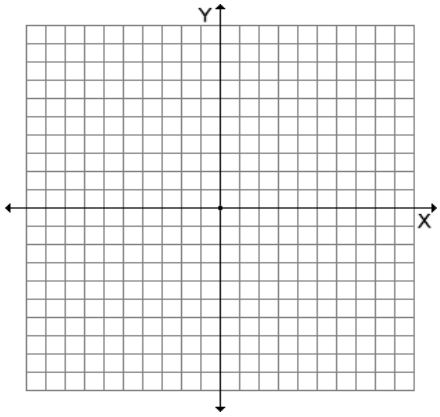
10. $x + y = 6$



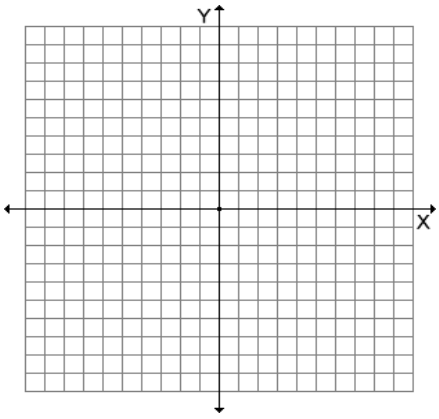
11. $x + 3y = -9$



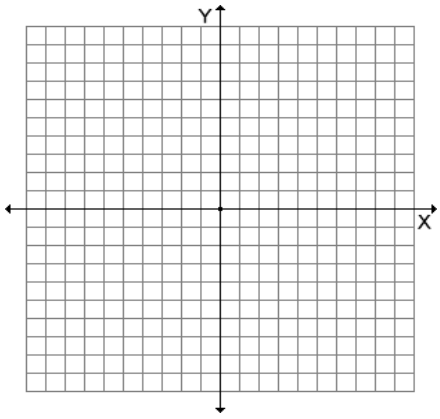
12. $-2x + 4y = 0$



13. $-3x - 2y = 12$



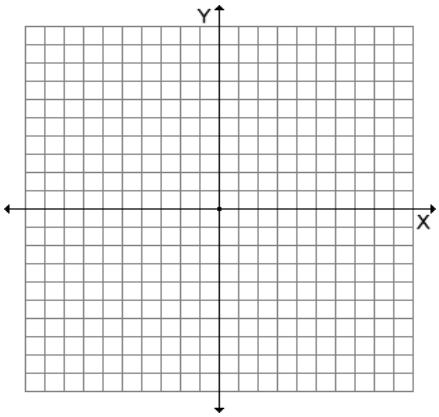
14. $3x - y = 9$



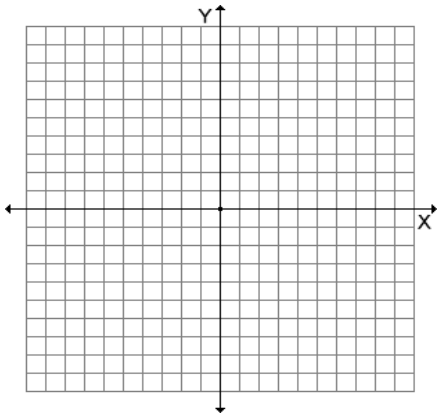
Objective 4 – Graph horizontal and vertical lines

Graph each equation.

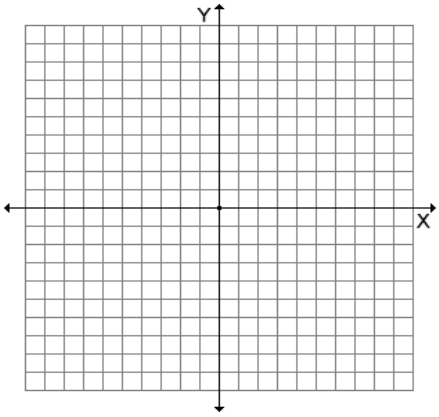
15. $x = 5$



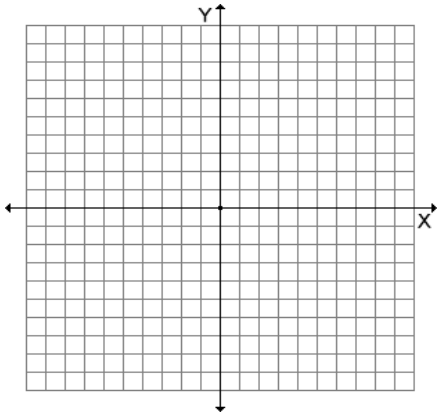
16. $y = -6$



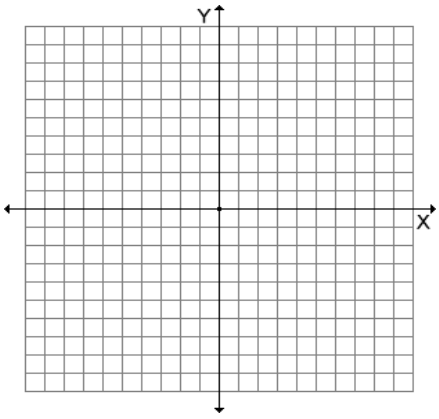
17. $y = 0$



18. $x = -3$



19. $y = 7$



20. $x = 0$