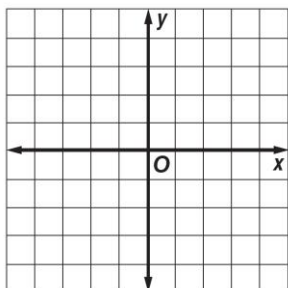


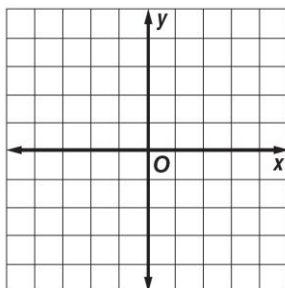
## Lesson 4.4: Linear Functions

**Directions:** Graph each function.

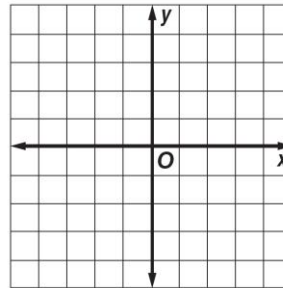
1.  $y = 2x$



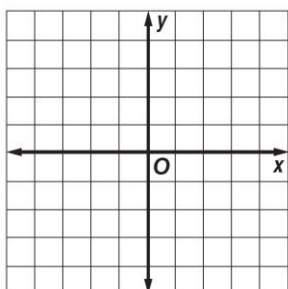
2.  $y = -4x$



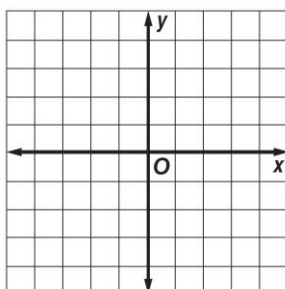
3.  $y = x - 4$



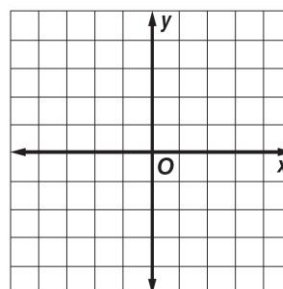
4.  $y = x + 3$



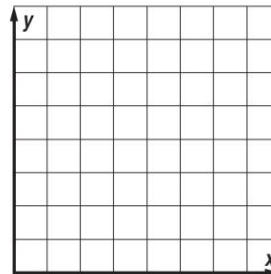
5.  $y = 3x + 1$



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



7. **CARPENTRY** Mrs. Valdez can assemble a chair in 1 day and a table in 4 days. Graph the function  $y = 5 - \frac{1}{4}x$  to determine how many of each type of furniture Mrs. Valdez can assemble in 20 days. Is the function continuous or discrete? Explain.



8. **FITNESS** A fitness center has set a goal to have 500 members. The fitness center already has 150 members and adds an average of 25 members per month. The function  $f(x) = 150 + 25x$  represents the membership after  $x$  months. Graph the function to determine the number of months it will take for the fitness center to reach its membership goal. Is the function continuous or discrete? Explain.

