

Skill: Linear Relationships

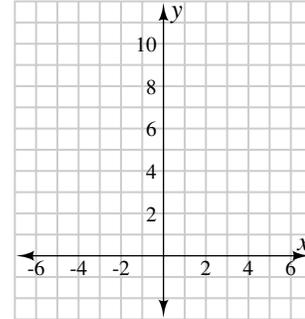
Investigation 1

Moving Straight Ahead

Does the point represent a point on the graph of $y = x - 4$.

1. $(0, -4)$ 2. $(5, -1)$ 3. $(-3, -7)$ 4. $(-7, -3)$

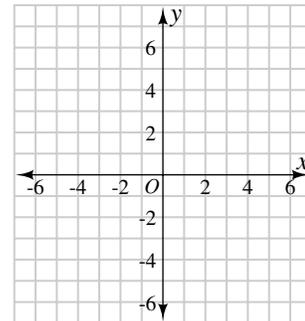
5. You order books through a catalog. Each book costs \$12 and the shipping and handling cost is \$5. Write an equation and make a graph that represents your total cost.



a. What is the total cost if you buy 6 books?

b. What is the total cost if you buy 4 books?

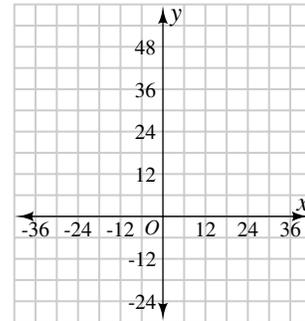
6. A ride in a taxicab costs \$2.50 for the first mile and \$1.50 for each additional mile, or part of a mile. Write an equation and make a graph that represents the total cost.



a. What is the total cost of a 10-mile ride?

b. What is the total cost of a 25-mile ride?

7. A tree is 3 feet tall and grows 3 inches each day. Write an equation and make a graph that represents how much the tree grows over time.



a. How tall is the tree in a week?

b. How tall is the tree in 4 weeks?

Write an equation for each graph.

