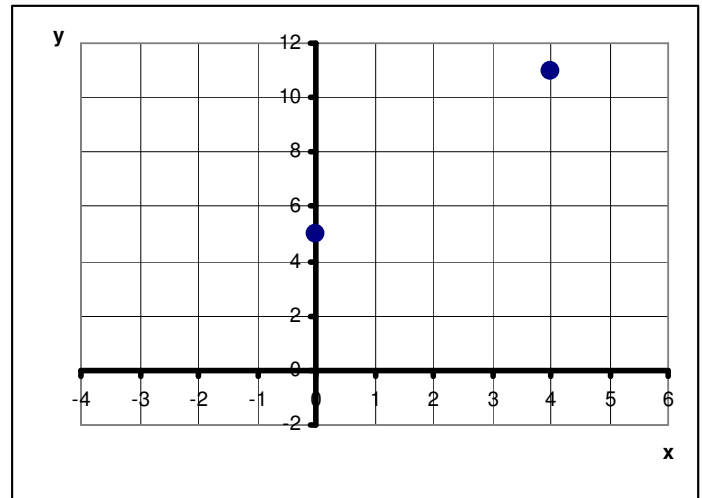**Slope and Y-Intercept of the Graph of a Line**

1. **Consider a line that passes through the two points (0, 5) and (4, 11).**

   Now look at the data table and graph below.

   a. **Sketch in the line that passes through the two given points.**

   b. **Identify the y-intercept of the line.**

   c. **Show how to determine the slope of the line.**

   d. **Write an equation for the line.**

   e. **Show how to find the value of y when x = 3.**

Δx	x	y	Δy
	0	5	
	4	11	

2. **Suppose a line has slope -2 and y-intercept 10.**

   a. **Write an equation for the line.**

   b. **Complete the table and graph below.**

x	y
-1	
0	
1	
2	
3	
4	
5	
6	