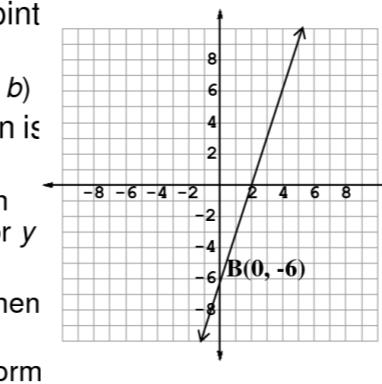


### Graphs in Slope-Intercept Form

- Recall that the **y-intercept** of a graph is the point where the graph crosses the **y axis**
  - If the **y-intercept** is at  $b$ , its coordinates are  $(0, b)$
- The **slope intercept form** of a linear equation is  $y = mx + b$ 
  - A linear equation  $Ax + By = C$  can be written in slope-intercept form by solving the equation for  $y$ 
    - This is the same as making  $y$  a function of  $x$
  - If a linear equation is in slope intercept form, then  $m$  is the slope and  $b$  is the **y-intercept**
  - Write each equation below in slope intercept form

$$\begin{array}{lll} 12x + 3y = 6 & x + 2y = 5 & 2x - 3y = 9 \\ 3y = -12x + 6 & & \\ y = -4x + 2 & & \end{array}$$



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What is the slope of (b) ? Question: 3. Let  $f(x)=x^3-4x-5$ . Using the formula for slope and the formula for tangent, find the slope of (a) . Then find the slope of (b) . What is the slope of (c) ? Question: 4. Let  $f(x)=2x^2-7x-4$ . Find the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis. Question: 5. Let  $f(x)=x^4-10x^2+6$ . What is the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis? Question: 6. Let  $f(x)=x^3-6x-5$ . Use the formula for slope to find the slope of the line passing through two points of tangency. Then use this formula to find the slope of: a. b. c. d. Question: 7. Let  $f(x)=x^5-14x+6$ . Using the formula for slope, find the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis. Question: 8. Let  $f(x)=x-4$ . Find the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis. Question: 9. Let  $f(x)=x^4-9x^2+5$ . Find the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis. Question: 10. Let  $f(x)=x-2$ . Find the slope of the line passing through two of the points of tangency of  $f(x)$  with the x-axis. Question: 11. If  $f(x)=2x-5$ , and  $g(x)$  is a function such that: (a)  $f(x)=x^2-5$  (b)  $g(x)=x^2+5$  then (c) what is the slope of the line joining  $(1,f(1))$  and  $(1,g(82157476a))$

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