Name:

The _____ - _____ of a line is the x-coordinate of the point where the line crosses the x-axis. It occurs when y = 0.

The _____ - _____ of a line is the y-coordinate of the point where the line crosses the y-axis. It occurs when x = 0.



A linear equation written in the form y = mx + b is in ______. The slope of the line is m, and the y-intercept of the line is b.

Identifying Slopes and y-Intercepts

Ex:) Determine the slope and y-intercept of the graph of each linear equation. Notes:

a. y = -4x - 2 b. $y - 5 = \frac{3}{2}x$

OYO:) Determine the slope and y-intercept of the graph of each linear equation. Notes:

a. y = 3x - 7 b. $y - 1 = -\frac{2}{3}x$

Graphing a Linear Equation in Slope-Intercept Form

Ex:) Graph the given equation and identify the x-intercept.

Notes:





OYO:) Graph the given equation and identify the x-intercept.

Notes:

y = x - 4



Modeling Real Life

Ex:) The number y of perfume bottles in storage after x months is represented by the equation y = -20x + 460. Graph the equation. Interpret the y-intercept and slope. In how many months will there be no perfume bottles left in storage? Justify your answer.

Notes:



y = 2.5x + 2. Graph the equation. Interpret the y-intercept and the slope.

OYO:) The cost y (in dollars) of taking a taxi x miles is represented by the equation





Notes:

When creating graphs for the assignment, be sure to

1.	
2.	
3.	
4.	

