



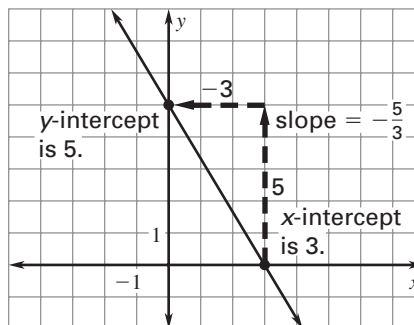
Objective 3 TEKS A.6.B Review

A.6.B Interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs.

The **slope** of the line is the ratio of the vertical change to the horizontal change.

The **x-intercept** is the value of x when $y = 0$. The x -intercept shows where the graph of the line crosses the x -axis.

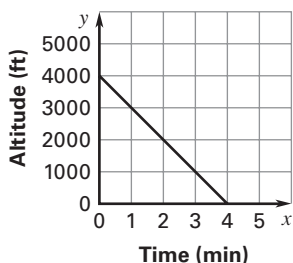
The **y-intercept** is the value of y when $x = 0$. The y -intercept shows where the graph of the line crosses the y -axis.



EXAMPLE

The graph shows an airplane's altitude y after x minutes. What do the slope, y -intercept, and x -intercept of the graph represent?

Airplane's Altitude



The slope is -1000 . This means the plane is descending at the rate of 1000 feet per minute.

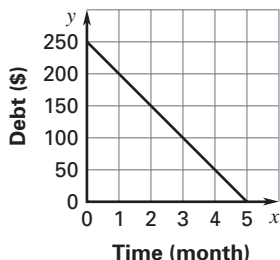
The y -intercept is 4000. This means the plane is at an altitude of 4000 feet when it begins its descent.

The x -intercept is 4. This means the plane lands 4 minutes after its descent begins.

YOU DO IT

This graph shows the remaining balance y of Mrs. Rivera's debt after x months. What do the slope, y -intercept, and x -intercept of the graph represent?

Debt Remaining



- The slope is -50 . This means _____
Mrs. Rivera pays off her debt at a rate of \$50 per month.
- The y -intercept is 250. This means _____
Mrs. Rivera had a \$250 debt when she began paying it off.
- The x -intercept is 5. This means _____
Mrs. Rivera's debt is paid off after 5 months.