



# Math Study Strategies

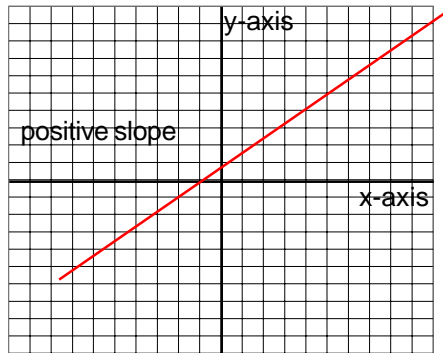
## Slope Characteristics

The following are some of the characteristics of the slope “m” of a line:

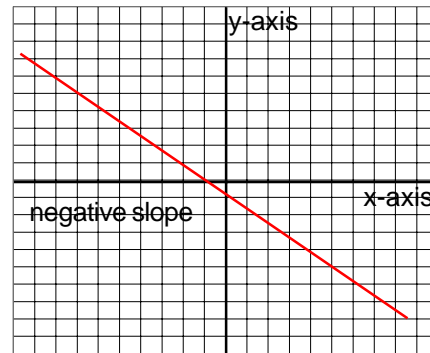
equation of line:  $y = mx + b$

slope = m    slope =  $\frac{\text{rise}}{\text{run}}$      $m = \frac{y_2 - y_1}{x_2 - x_1}$

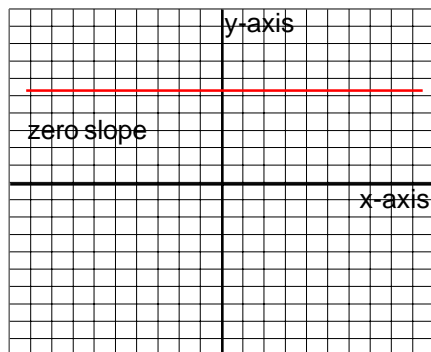
| Characteristic of Line                     | Resulting Slope |
|--|-----------------|
| Line rises from left to right on the graph | Positive        |
| Line drops from left to right on the graph | Negative        |
| Line is horizontal                         | Zero            |
| Line is vertical                           | Undefined       |



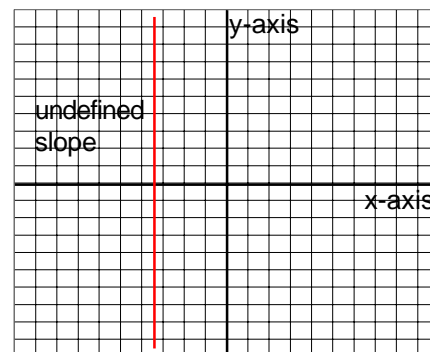
A line with a **positive** slope **rises** from left to right.



A line with a **negative** slope **falls** from left to right.



A line with a **zero** slope is **horizontal**.



A line with an **undefined** slope is **vertical**.