**Vocabulary**

|  |  |
| --- | --- |
| **domain** | the set of input values or *x*-values of a function |
| **function** | a relationship between variables that has one output for each and every input |
| **linear****function** | a function in which the highest power associated with the independent variable is 1 |
| **linear****function** | a function that is represented by a line when graphed on a Cartesian plane |
| **range** | the set of output values or *y*-values of a function |
| **slope** | a ratio of the rate at which the dependent variable is changing versus the rate at which the independent variable is changing; frequently expressed as $\frac{rise}{run}$, or $\frac{change in y}{change in x}$ |
| ***y*-intercept** | the point on the *y*-axis at which a function crosses the *y*-axis |
| **slope-intercept****form** | the form *y = mx + b* of a linear equation, where *m* represents the slope of the line and *b* represents its *y*-intercept |
| **absolute value** | the distance a number is from zero on a number line; the value of a number ignoring its sign (+ or −) |
| **origin** | the point of intersection of the *x*-axis and *y*-axis on a Cartesian plane |