Lesson 2.3.3: Independent and Dependent Variables

What is a Dependent Variable?

- ▶ Its value depends on the independent variable.
- ► The y-values are considered the dependent variable because their values depend on the values of x.

What is an Independent Variable?

- Its value controls the value of the dependent variable.
- ➤ The x-values are considered the independent variable because any integer can be assigned to it.

Practice Exercises 2.3.3

- A. Classify the variables as independent or dependent.
 - 1. Effort and grades
 - 2. Distance covered and length of running time
 - 3. Height of a tree and number of years grown
 - 4. Number of hours watching Netflix and the amount of load data
- B. Write True if the statement is true or False if it is false.
 - 1. The amount of effort depends on the amount of learning.
- 2. The distance covered by a runner determines the length of time running.
- 3. The height of a tree determines the number of years it is grown.
- The number of hours watching Netflix depends on the amount of load data left.

Activity 2.3.3

- A. Classify the variables as independent or dependent.
 - 1. Time and salary
 - 2. Distance covered and volume of gasoline
 - ${\tt 3.}\,$ Height of a plant and number of months grown
 - 4. Number of hours boiling and the number of liters of water in a pot
- B. Write True if the statement is true or False if it is false.
 - The amount of salary depends on the amount of time spent on work.
- The distance covered by a car determines the volume of gasoline used.
- 3. The height of a plant determines the number of months it is grown.
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