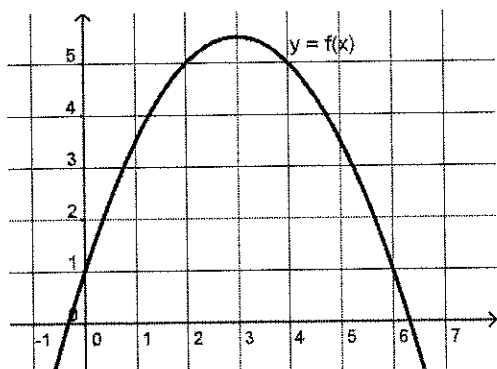


Functions: Give One, Get One

Under each representation, answer the true-false questions that follow. Then, provide additional "true" statements about the function.

Sample



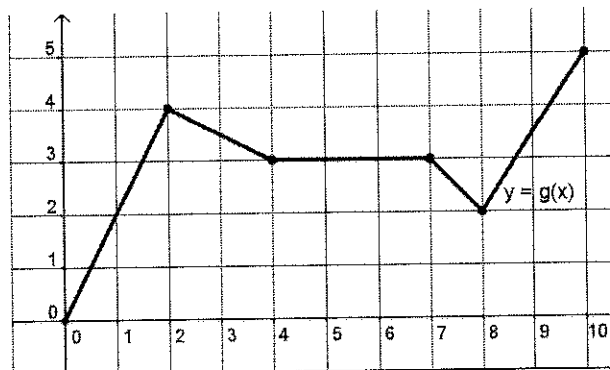
True or False?

- _____ 1. One of the function's y -intercepts falls between 6 and 7.
- _____ 2. $f(2)$ is equal to $f(4)$.
- _____ 3. $f(6)$ is greater than $f(5)$.
- _____ 4. The function reaches a maximum value at $x = 3$.
- _____ 5. The domain of $f(x)$ is $\{x \mid x \in \mathbb{R}\}$.
- _____ 6. The range of $f(x)$ is $(-\infty, 5.5]$.

Write another valid statement about the function:

Also, _____ told me this:

A)



True or False?

- _____ 1. The y -intercept of this function is 0.
- _____ 2. The domain of $g(x)$ can be described as $0 \leq x \leq 10$.
- _____ 3. Between $x = 2$ and $x = 4$, the function has a slope of $\frac{1}{2}$.
- _____ 4. The function reaches a minimum value at $x = 8$.

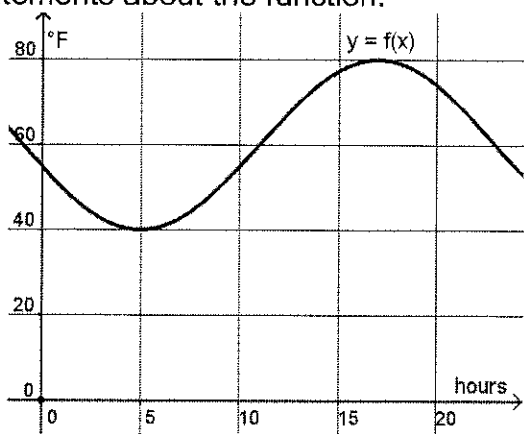
Write another valid statement about the function:

Also, _____ told me this:

Functions: Give One, Get One

Under each representation, answer the true-false questions that follow. Then, provide additional "true" statements about the function.

B)



The graph shows the temperature (y , in $^{\circ}\text{F}$) over a period of 24 hours.

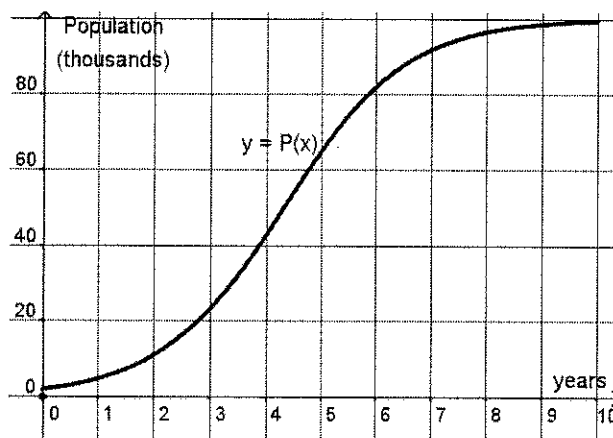
True or False?

- 1. The temperature ranged from 40°F to 80°F .
- 2. The temperature was dropping during the first 10 hours shown.

Write two more valid statements about the function:

Also, _____ told me this:

C)



The graph shows the population (y , in thousands of people) over a 10-year period.

True or False?

- 1. The population reached a maximum around $x = 4.5$ years.
- 2. The population was increasing between 0 and 10 years.

Write two more valid statements about the function:

Also, _____ told me this: