## **Unit 5 Glossary Terms**

## **Growth factor**

In an exponential function, the output is multiplied by the same factor every time the input increases by one. The multiplier is called the growth factor.

## **Exponential function**

An exponential function is a function that has a constant growth factor. Another way to say this is that it grows by equal factors over equal intervals.

For example,  $f(x) = 2 \cdot 3^{x}$  defines an exponential function. Any time x increases by 1, f(x) increases by a factor of 3.

## **Growth rate**

In an exponential function, the growth rate is the fraction or percentage of the output that gets added every time the input is increased by one. If the growth rate is 20% or 0.2, then the growth factor is 1.2.