

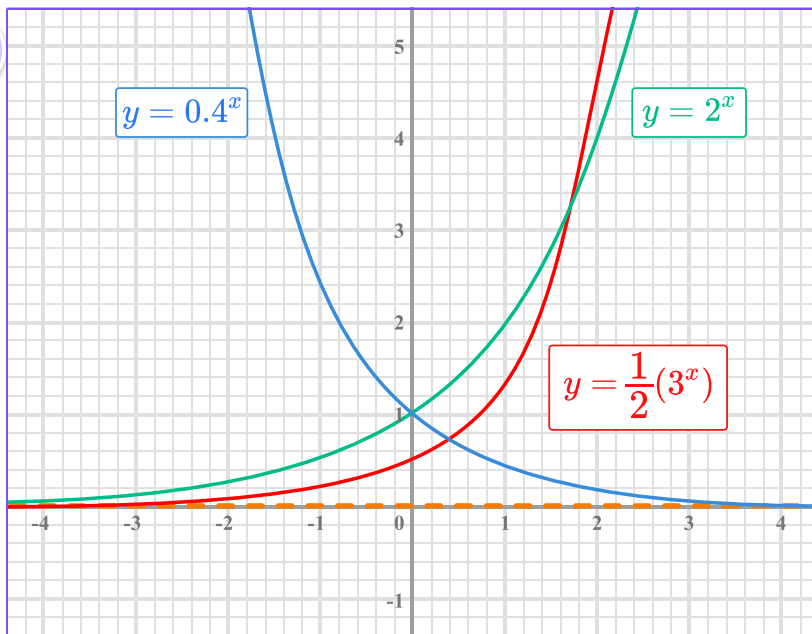
Exponential Functions

An **exponential function** is a mathematical function in the form $y = ab^x$

The graph of an exponential function has a **horizontal asymptote**.

a and b are constants with $b > 0$

 Example



The curve gets increasingly close to the x -axis but does not touch it.

These graphs all have a horizontal asymptote at $y = 0$ (the x -axis) because ab^x can never equal zero.