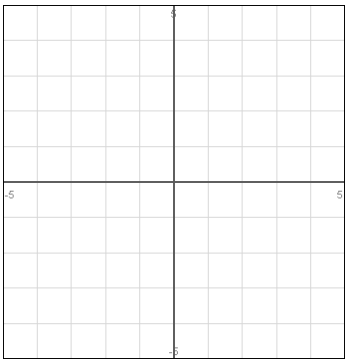
Exponential Functions

$$y = a \bullet b^x$$

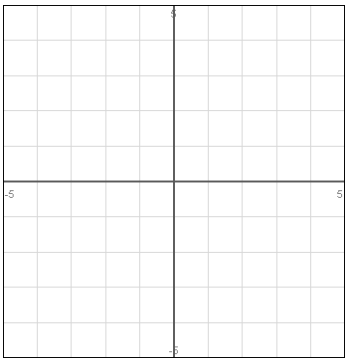
An exponential function is a function of the form $y = a \bullet b^x$ where $a \neq 0,\ b > 0$ and not equal to 1 and x is a real number.

Directions: Graph each exponential function.

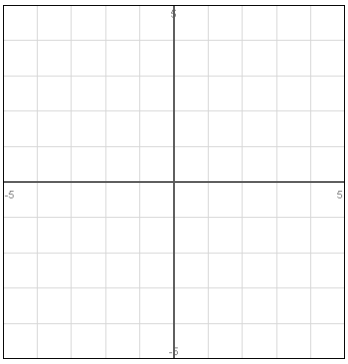
1. $y = 2^x$



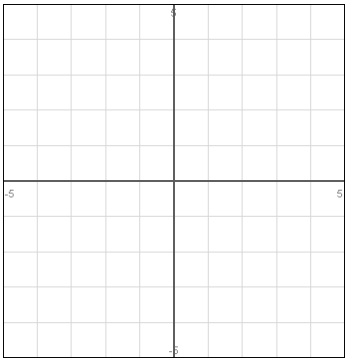
2. $y = -(2)^x$



3. $y = \left(\frac{1}{2}\right)^x$



4. $y = -\left(\frac{1}{2}\right)^x$



5. $y = 3 \bullet 2^x$