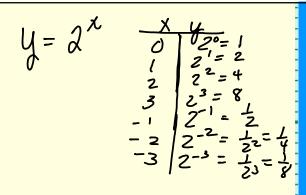
EXPONENTIAL FUNCTIONS

$$y = b^{\times} = \frac{\text{exponent is a variable } y = 7^{\times}$$
 $b > 0, b \neq 1$

Exponential

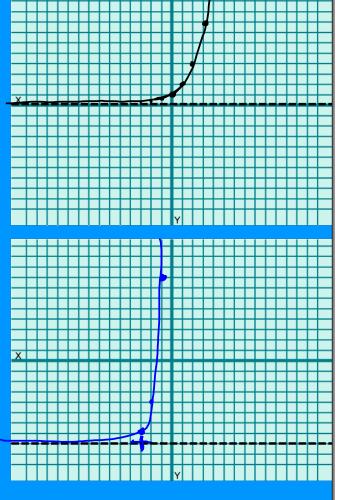
 $y = b^{\times} = \frac{1}{3}$
 $y = b^{$



$$y = 4 - 8$$

Left Down

 $y = 4^{x+3}$
 $y = 4^{x+3}$



$$y = -\frac{31}{31} + 6$$

$$y = \frac{-(x-6)}{2}$$

$$y = \frac{26-x}{7} - 7$$

$$y = \frac{-(x-6)}{7}$$

$$y = \frac{-(x-6)}{7}$$

$$y = -\frac{1}{2}$$

$$y = \sqrt{-(x-4)}$$

$$y = -2^{x}$$

$$y =$$

$$C = (1+\frac{1}{n})^{n}$$
 Leonard Euler (pronounced)
$$1 = 1 \quad (1+\frac{1}{n})^{1} = 2$$

$$1 = 2 \quad (1+\frac{1}{n})^{2} = 2.25$$

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Nature Formula $g = 90 \cdot e^{K6}$ $1000 - 300 \cdot e^{0.125} t$ t = 9.6 hrs.

Bacteria

300 bacteria

K = 0.125

To how many hours

will there be 1000

bacteria?