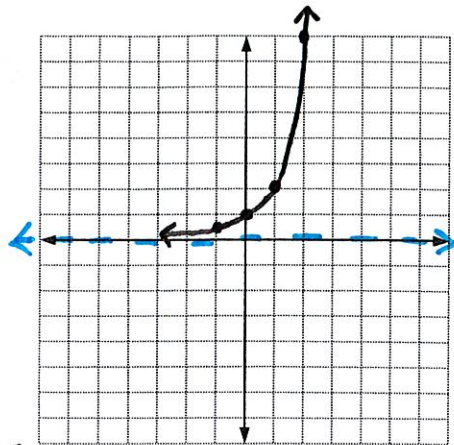
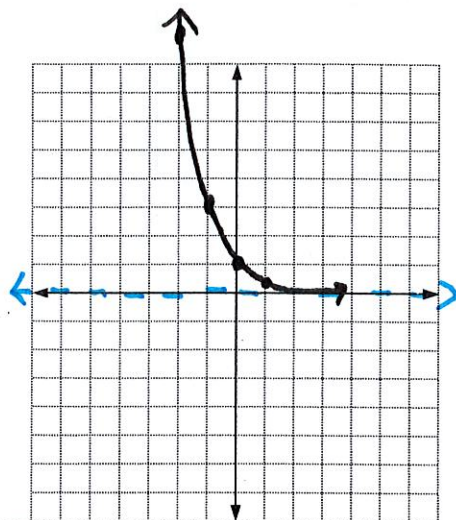


1.  $f(x) = 2^x$



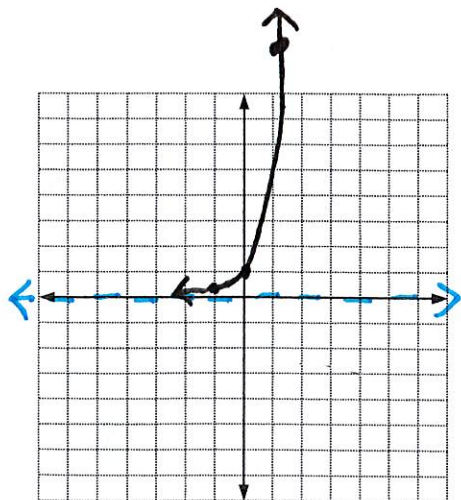
EB  $\left[ \begin{array}{l} \text{As } x \rightarrow -\infty, f(x) \rightarrow 0 \\ \text{As } x \rightarrow \infty, f(x) \rightarrow \infty \end{array} \right.$

2.  $f(x) = \frac{1}{3}^x$



EB  $\left[ \begin{array}{l} \text{As } x \rightarrow -\infty, f(x) \rightarrow \infty \\ \text{As } x \rightarrow \infty, f(x) \rightarrow 0 \end{array} \right.$

3.  $f(x) = 10^x$



EB  $\left[ \begin{array}{l} \text{As } x \rightarrow -\infty, f(x) \rightarrow 0 \\ \text{As } x \rightarrow \infty, f(x) \rightarrow \infty \end{array} \right.$

EXPONENTIAL  
FUNCTION

\*\*LOGARITHMIC  
FUNCTION

Domain

$(-\infty, \infty)$

Range

$(0, \infty)$

intercept

y-int  $\rightarrow (0, 1)$

Asymptote

$y = 0$

Growth/Decay?

growth

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_

EXPONENTIAL  
FUNCTION

\*\*LOGARITHMIC  
FUNCTION

Domain

$(-\infty, \infty)$

Range

$(0, \infty)$

intercept

y-int  $\rightarrow (0, 1)$

Asymptote

$y = 0$

Growth/Decay?

decay

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_

EXPONENTIAL  
FUNCTION

\*\*LOGARITHMIC  
FUNCTION

Domain

$(-\infty, \infty)$

Range

$(0, \infty)$

intercept

y-int  $\rightarrow (0, 1)$

Asymptote

$y = 0$

Growth/Decay?

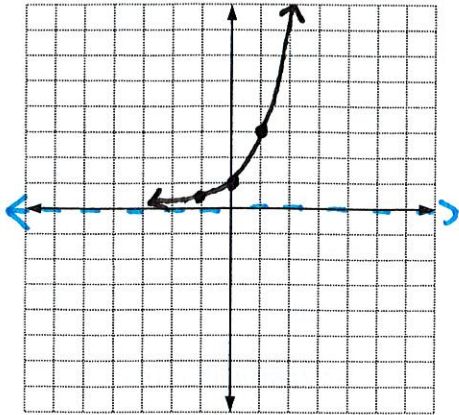
growth

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_

4.  $f(x) = 3^x$



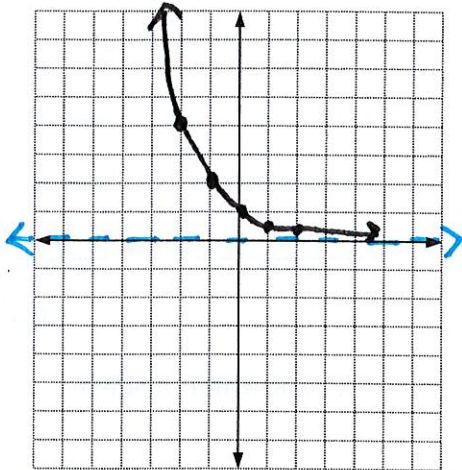
As  $x \rightarrow -\infty, f(x) \rightarrow 0$

As  $x \rightarrow \infty, f(x) \rightarrow \infty$

5.

$f(x) = 2^{-x}$

$f(x) = \left(\frac{1}{2}\right)^x$

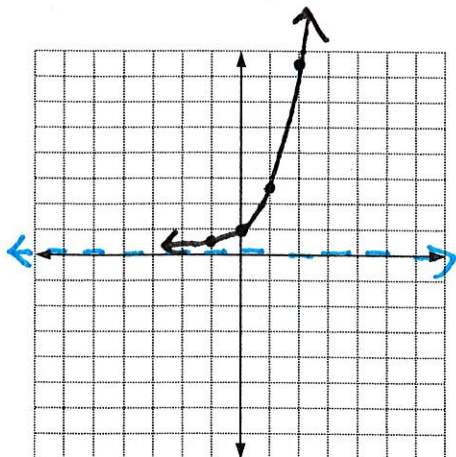


As  $x \rightarrow -\infty, f(x) \rightarrow \infty$

As  $x \rightarrow \infty, f(x) \rightarrow 0$

6.

$f(x) = e^x$



As  $x \rightarrow -\infty, f(x) \rightarrow 0$

As  $x \rightarrow \infty, f(x) \rightarrow \infty$

EXPONENTIAL FUNCTION

\*\*LOGARITHMIC FUNCTION

Domain

$(-\infty, \infty)$

\_\_\_\_\_

Range

$(0, \infty)$

\_\_\_\_\_

intercept

y-int  $\rightarrow$   $(0, 1)$

\_\_\_\_\_

Asymptote

$y = 0$

\_\_\_\_\_

Growth/Decay?

growth

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_

EXPONENTIAL FUNCTION

\*\*LOGARITHMIC FUNCTION

Domain

$(-\infty, \infty)$

\_\_\_\_\_

Range

$(0, \infty)$

\_\_\_\_\_

intercept

y-int  $\rightarrow$   $(0, 1)$

\_\_\_\_\_

Asymptote

$y = 0$

\_\_\_\_\_

Growth/Decay?

decay

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_

EXPONENTIAL FUNCTION

\*\*LOGARITHMIC FUNCTION

Domain

$(-\infty, \infty)$

\_\_\_\_\_

Range

$(0, \infty)$

\_\_\_\_\_

intercept

y-int  $\rightarrow$   $(0, 1)$

\_\_\_\_\_

Asymptote

$y = 0$

\_\_\_\_\_

Growth/Decay?

growth

N/A

\*\*Equation of the inverse of the exponential function

\_\_\_\_\_