## EXPONENTIAL FUNCTIONS notes

exponential function - a function in the form:

$$f(x) = b^x$$
 where  $b > 0$ 

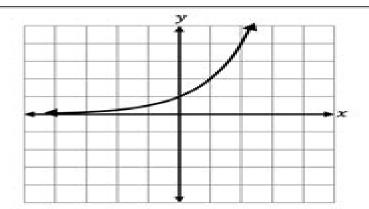
asymptote - a \_\_\_\_\_ that a graphed function approaches but never \_\_\_\_\_

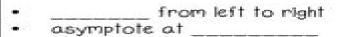
exponential growth function - an exponential function where b is \_\_\_\_\_ than \_\_\_ example:

exponential decay function - an exponential function where b is \_\_\_\_\_ and \_\_\_ example:

## EXPONENTIAL GROWTH FUNCTION

# $f(x) = 2^x$

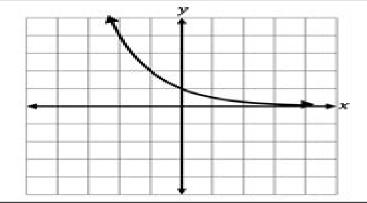




- domain:
- range:
- y-intercept:

### EXPONENTIAL DECAY FUNCTION

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



- \_\_\_\_\_ from left to right
- asymptote at \_\_\_\_\_
- domain:
- range:
- y-intercept:

# **Exponential Transformation Practice Key**

Zhe Xu

#### **Exponential Transformation Practice Key:**

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