

DATE: _____

Graphing Exponential Functions

Calculator

1. Graph the function and label all key parts:

$$f(x) = 6\left(\frac{1}{2}\right)^x$$

Identify the asymptote:

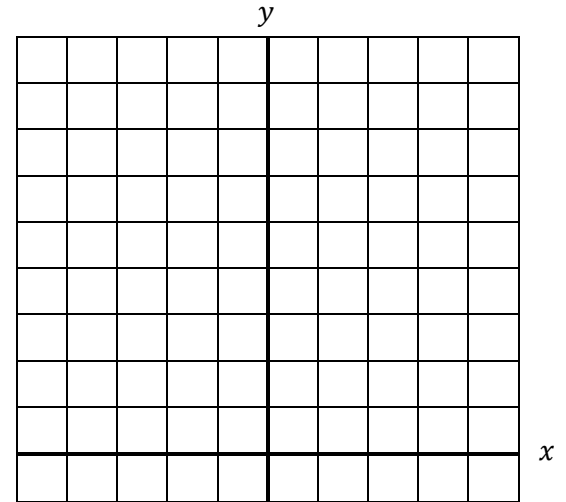
Identify the y -intercept:

Identify the x -intercept:

Domain:

Range:

Describe the transformation(s):



2. Graph the function and label all key parts:

$$f(x) = e^{x+1} - 4$$

Identify the asymptote:

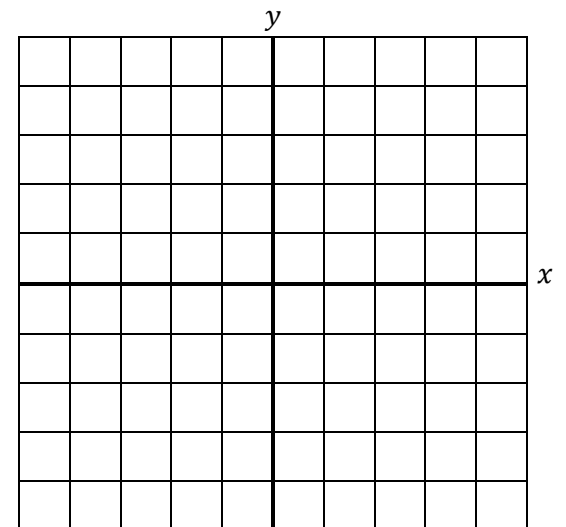
Identify the y -intercept:

Identify the x -intercept:

Domain:

Range:

Describe the transformations:



Graphing Logarithmic Functions

Non-Calculator

3. Graph the function and label all key parts:

$$g(x) = \log_3(x - 3)$$

Identify the asymptote:

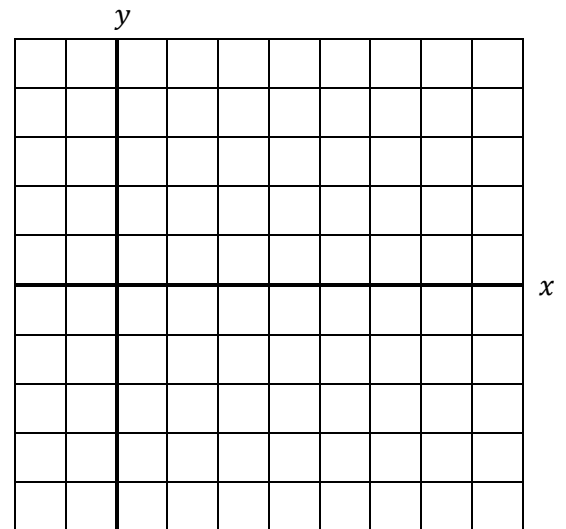
Identify the y -intercept:

Identify the x -intercept:

Domain:

Range:

Describe the transformation(s):



4. Graph the function and label all key parts:

$$g(x) = \log_3(x + 3) - 2$$

Identify the asymptote:

Identify the y -intercept:

Identify the x -intercept:

Domain:

Range:

Describe the transformations:

