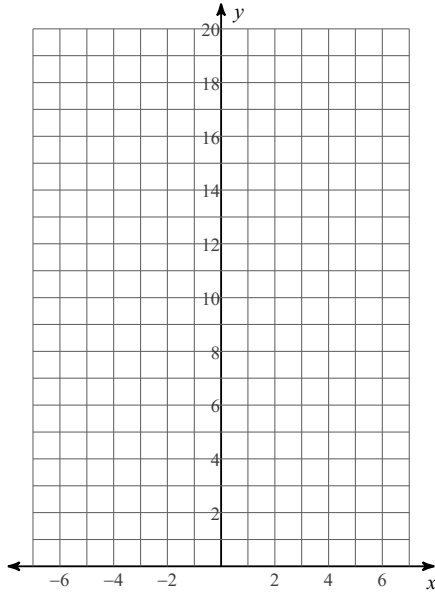


Exponential Functions

Sketch the graph of each function.

1) $y = 4^x$



2) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

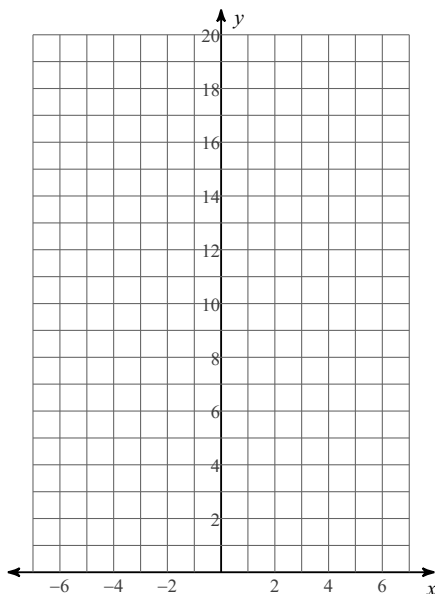
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

3) $y = \frac{1}{4} \cdot 8^x$



4) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

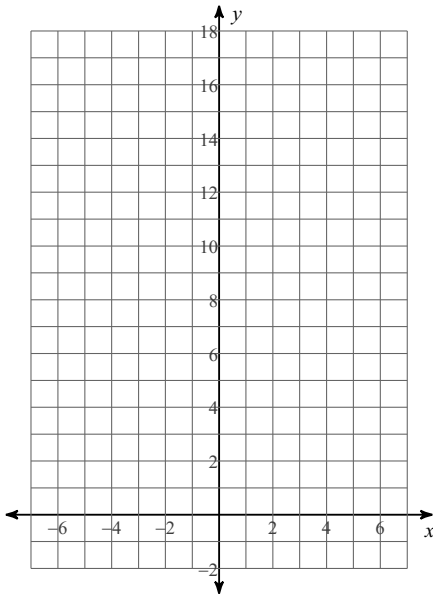
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

5) $y = 3^x - 2$



6) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

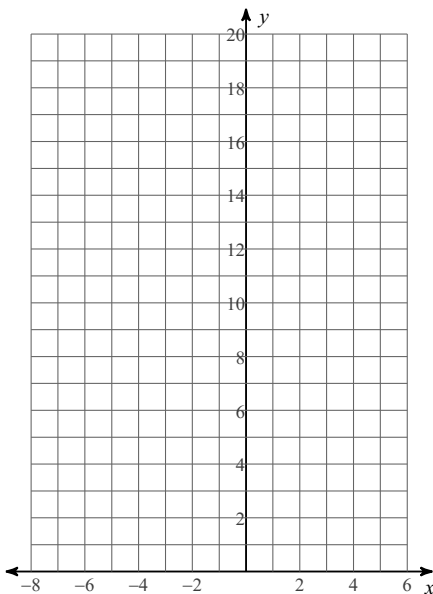
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

7) $y = \left(\frac{1}{2}\right)^{x+1}$



8) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

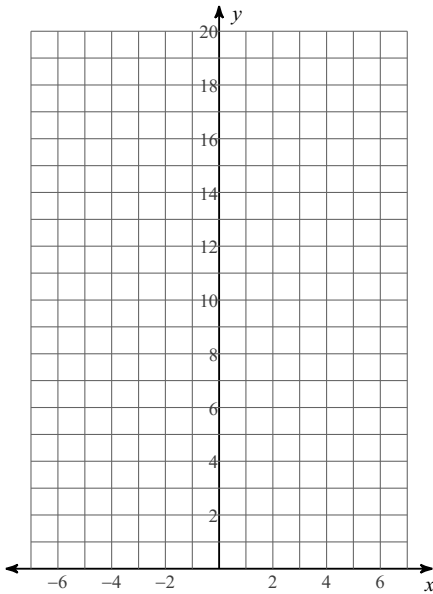
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

9) $y = 2^x$



10) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

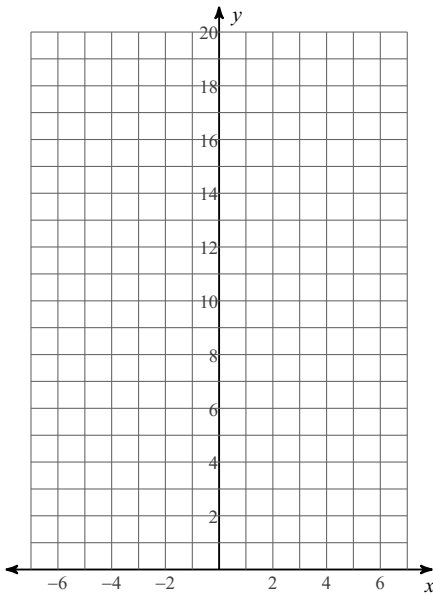
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

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



12) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

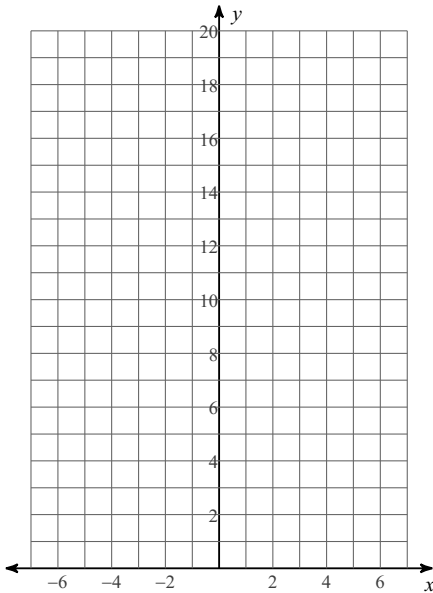
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

13) $y = \left(\frac{1}{4}\right)^x + 1$



14) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

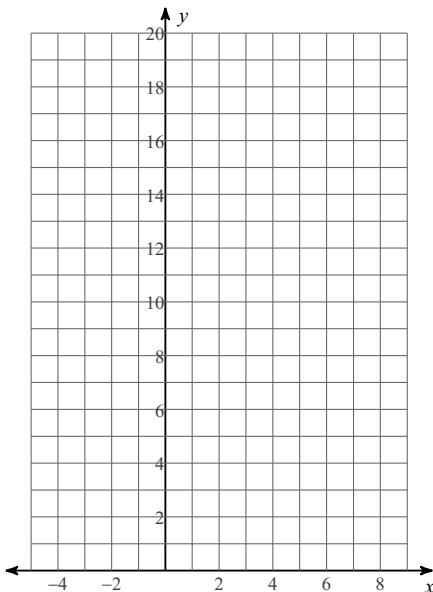
Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .

Sketch the graph of each function.

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



16) Create a table of values.

Growth or Decay: _____

y-intercept _____

Domain _____

Range _____

Asymtote _____

As x approaches ∞ y approaches _____ .

As x approaches $-\infty$ y approaches _____ .