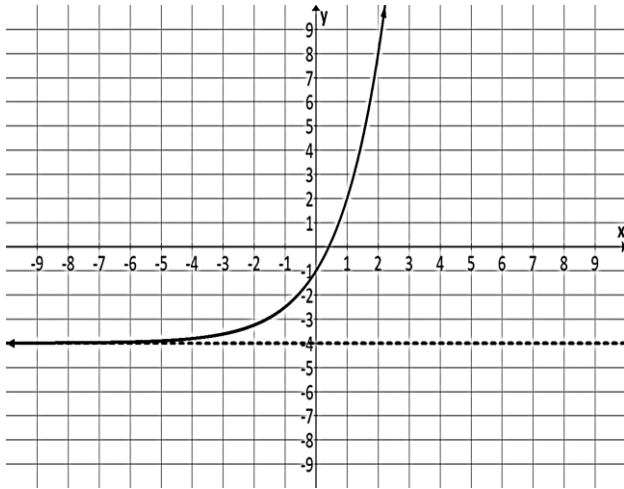


1.



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

Maximum(s): _____ Minimum(s): _____

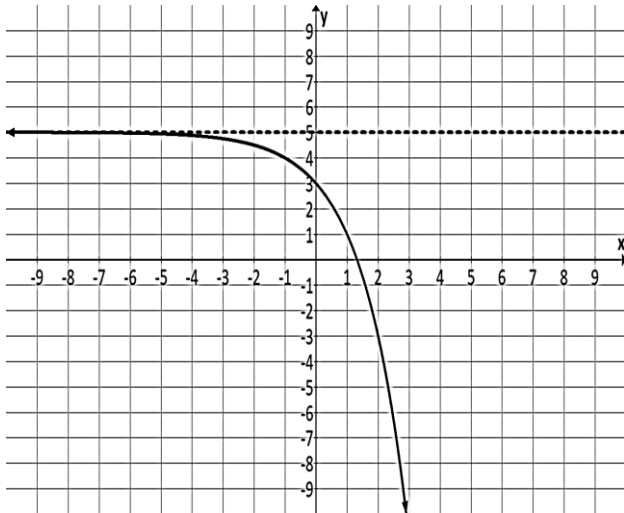
Asymptote: _____

End- Behavior: as $x \rightarrow \infty$, $f(x) \rightarrow$ _____

as $x \rightarrow -\infty$, $f(x) \rightarrow$ _____

Find the average rate of change from $x=0$ to $x=2$: _____

2.



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

Maximum(s): _____ Minimum(s): _____

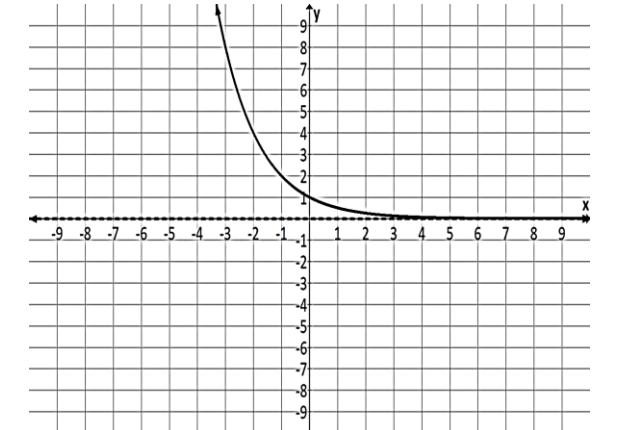
Asymptote: _____

End- Behavior: as $x \rightarrow \infty$, $f(x) \rightarrow$ _____

as $x \rightarrow -\infty$, $f(x) \rightarrow$ _____

Find the average rate of change from $x=-1$ to $x=2$: _____

3.



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

Maximum(s): _____ Minimum(s): _____

Asymptote: _____

End- Behavior: as $x \rightarrow \infty$, $f(x) \rightarrow$ _____

as $x \rightarrow -\infty$, $f(x) \rightarrow$ _____

Find the average rate of change from $x=-2$ to $x=-1$: _____

Algebra Exponential Functions

Name: _____

4. Identify all of the transformations for the functions below. Also list out the location of the asymptote.

a. $f(x) = 4\left(\frac{3}{4}\right)^x$

b. $f(x) = 3(1.5)^x - 6$

c. $f(x) = .25(2)^x + 4$

d. $f(x) = -4\left(\frac{5}{4}\right)^{x+3} - 2$

e. $f(x) = -\left(\frac{1}{2}\right)^{x-3}$

f. $f(x) = 2^{-x+3} - 8$

5. Find the average rate of change for the following functions on the given interval.

a. $f(x) = \frac{3}{4}(2)^x, 2 \leq x \leq 5$

b. $f(x) = 2(5)^x, 1 \leq x \leq 3$

6. Graph the following exponential functions: (Transformations, Table, Graph, Asymptote)

a. $f(x) = 2(2)^{x-4}$

b. $f(x) = -(2)^x + 6$

