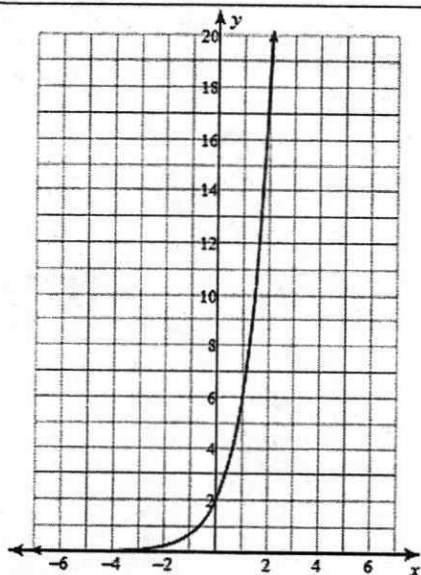


Name: _____

Practice Assignment

Block: _____



Domain: _____ Range: _____

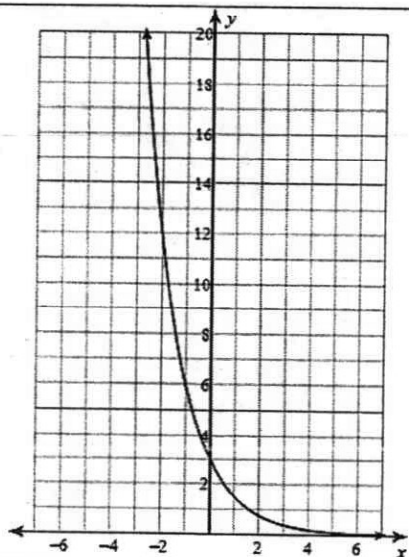
X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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



Domain: _____ Range: _____

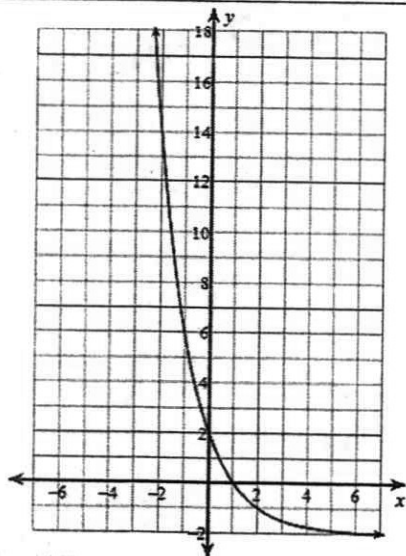
X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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



Domain: _____ Range: _____

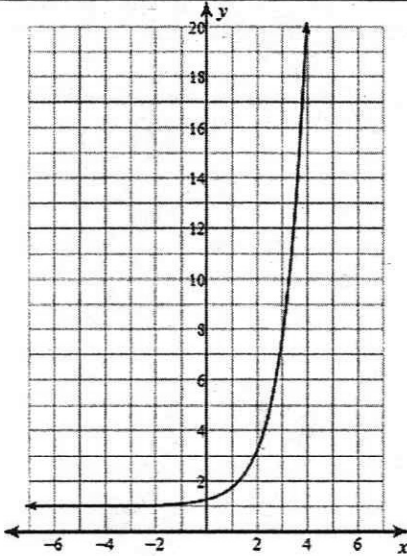
X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

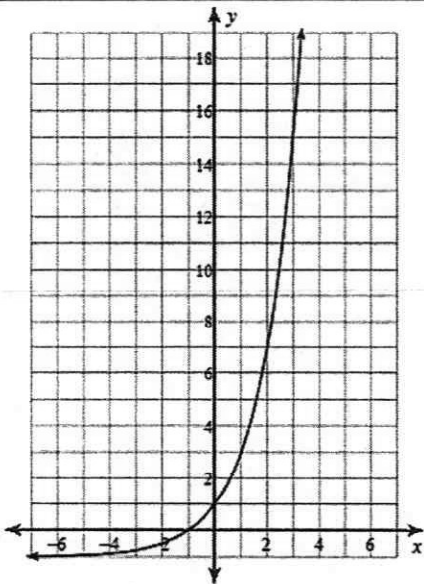
Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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

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



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

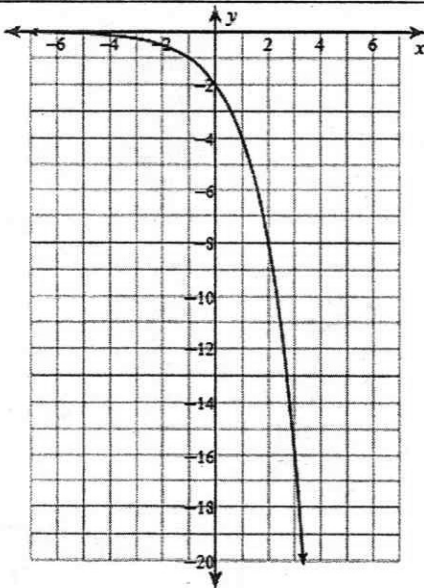
Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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

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



Domain: _____ Range: _____

X-intercept: _____ y-intercept: _____

Interval of Increase: _____ Interval of Decrease: _____

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

Asymptote: _____

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

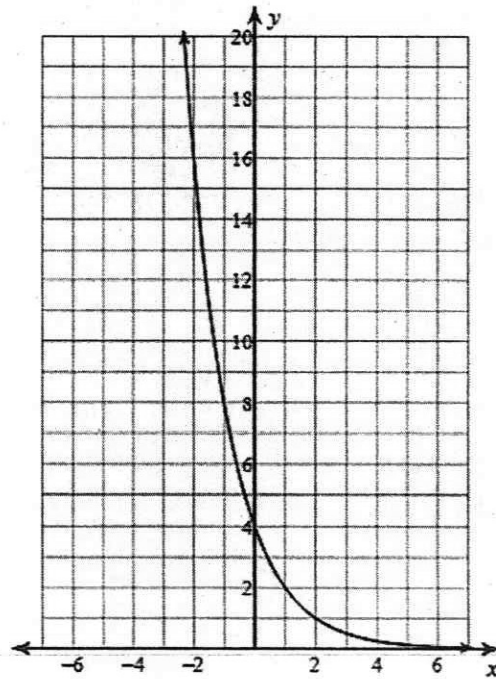
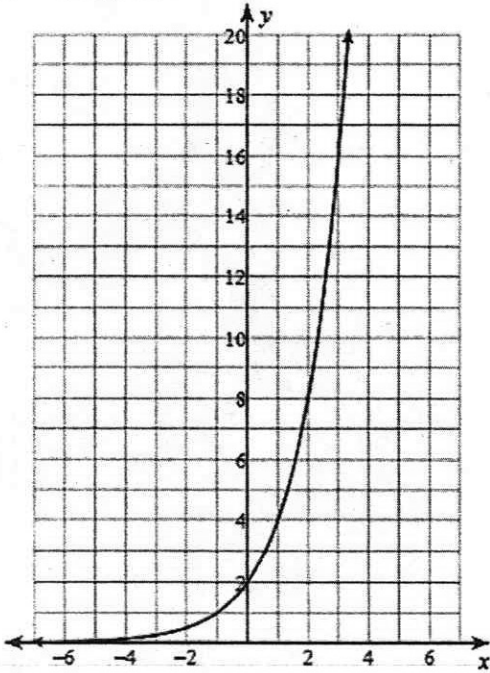
as $x \rightarrow \infty$, $f(x) \rightarrow$ _____

Practice Assignment

Directions: Find the average rate of change for the given intervals

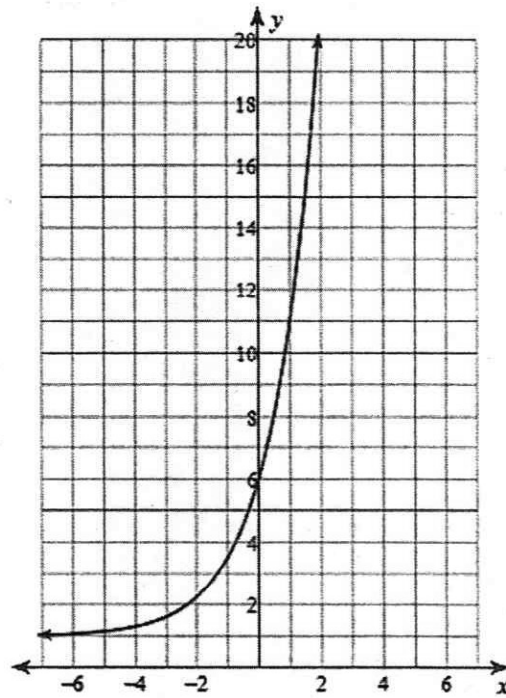
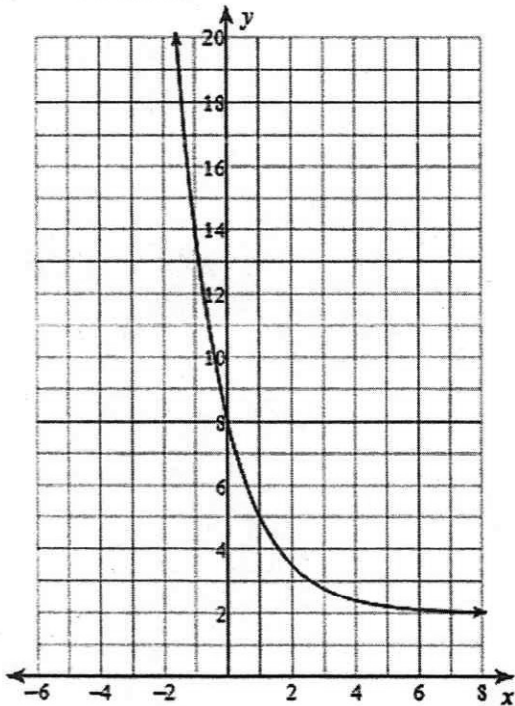
1. $0 \leq x \leq 3$

2. $-1 \leq x \leq 2$



3. $-1 \leq x \leq 1$

4. $0 \leq x \leq 1$



5. A type of bacteria doubles every 36 hours. A petri dish starts out with 12 of these bacteria. Use the table below to calculate the rate of change for the interval [2, 5].

Days (x)	Amount of bacteria ($f(x)$)
0	12
1	19
2	30
3	48
4	76
5	121
6	192

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

7. Use the table below to answer the following questions:

x	0	1	2	3	4
y	3	6			

a. Create three y -values that complete the table so the function would be linear.

b. Create three y -values that complete the table so the function would be exponential.

c. Create your own table of values for a function that is linear and has constant first differences of -3.

d. Create your own table of values for a function that is exponential and has constant ratio of 3.