

Name _____

Date _____

Graph each Function

1. $y = -2^{x+1} + 1$

Transformations: _____

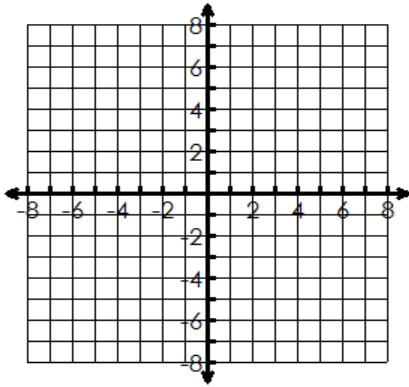
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



2. $y = -\log_3(x+1) - 2$

Transformations: _____

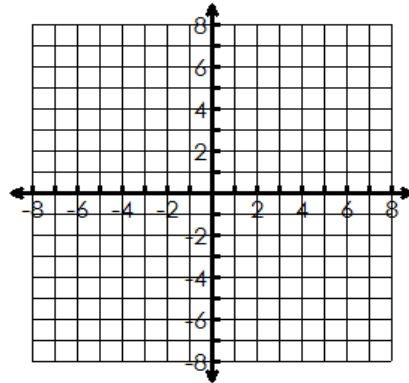
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



3. $y = \log_4(x-2) - 1$

Transformations: _____

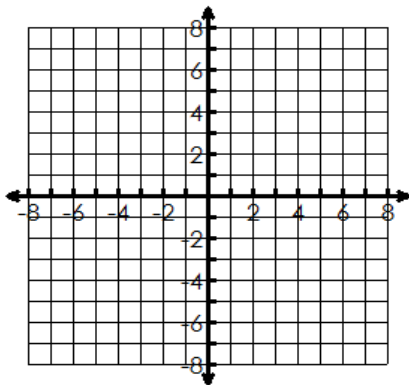
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



4. $y = \left(\frac{1}{4}\right)^{x-1} - 3$

Transformations: _____

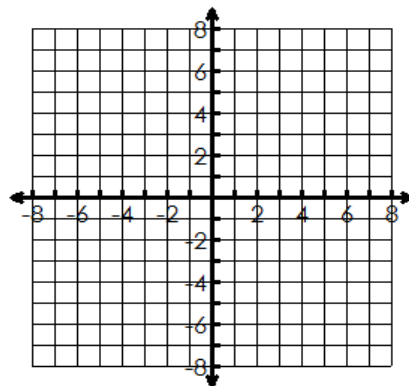
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



5. $y = \ln(x-2)$

Transformations: _____

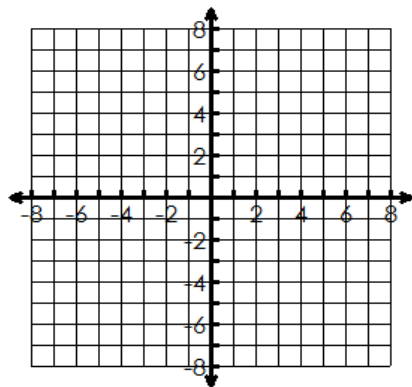
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



6. $y = e^{x+1} - 3$

Transformations: _____

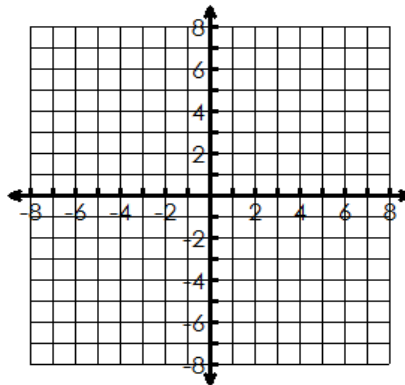
Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

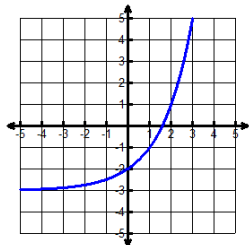
End Behavior: $x \rightarrow ______, f(x) \rightarrow ______$

$x \rightarrow ______, f(x) \rightarrow ______$



7. A) Does the table or graph have a larger y-intercept?
B) Determine which is a growth problem and which is a decay problem.

X	F(x)
-3	6
-2	4
-1	3
0	2.5
1	2.25
2	2.125



8. A) What is type of asymptote (vertical or horizontal) does this table have?
B) What is the equation of the asymptote?
C) Is #8 an Exponential Function or a Logarithmic Function?

X	F(x)
-3	-0.875
-2	-0.75
-1	-0.5
0	0
1	1
2	3
3	7

9. A) What is type of asymptote (vertical or horizontal) does this table have?

B) What is the equation of the asymptote?

C) Is #9 an Exponential Function or Logarithmic Function?

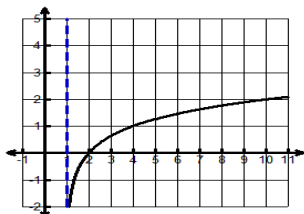
X	F(x)
0.5	-0.63
1	0
3	1
9	2

10. Which table is a log function and which table is an exponential function?

X	F(x)
-0.5	1.731
0	3
1	9
2	27

X	F(x)
-0.5	-0.63
0	0
2	1
8	2

11. Write the equation of the logarithm based upon the graph



12. Write the equation of the exponential based upon the graph

