

Name _____

Date _____

1. $y = \ln(x)$

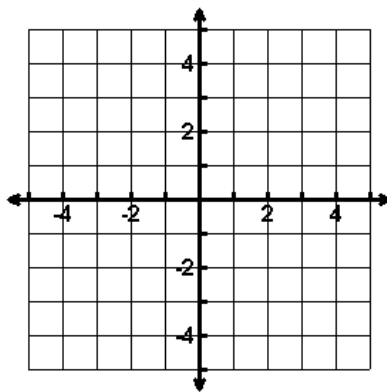
Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec _____

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$



2. $y = e^x$

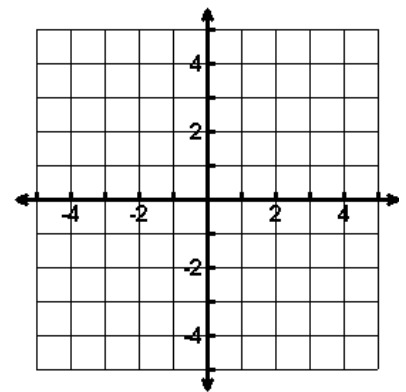
Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec _____

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$



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

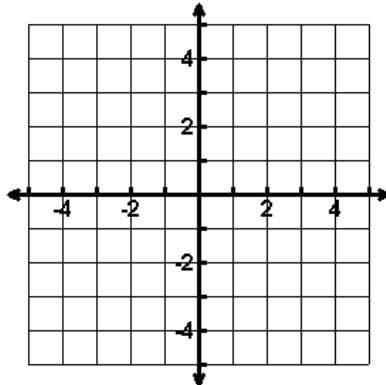
Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec _____

X-Int: _____ Y-Int: _____

End Behavior: $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$



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

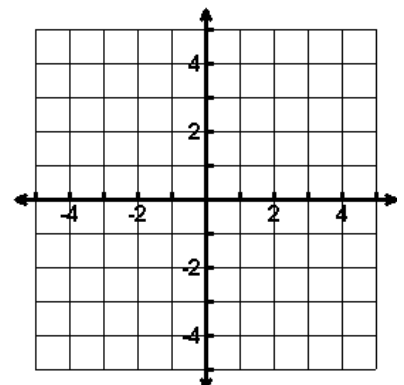
Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec _____

X-Int: _____ Y-Int: _____

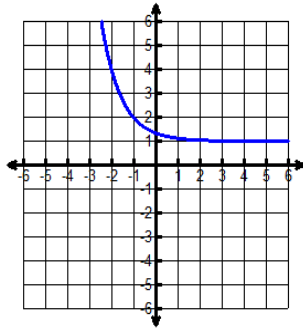
End Behavior: $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$
 $x \rightarrow \text{_____}, f(x) \rightarrow \text{_____}$



5. 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)
-2	2.125
-1	2.25
0	2.5
1	3
2	4
3	6



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

X	F(x)
-0.5	-0.5
0	0
1	.5
3	1
7	1.5
15	2

X	F(x)
-0.5	2
0	4
1	16
2	64
3	256

7.

A) Is this an Exponential Function or a Logarithmic Function?

B) What type of asymptote (vertical or horizontal) does this table have?

C) What is the equation of **the asymptote**?

X	F(x)
-1	.111
-0.5	.193
0	.333
1	1
2	3
3	9
4	27

8.

A) Is this an Exponential Function or a Logarithmic Function?

B) What type of asymptote (vertical or horizontal) does this table have?

C) What is the equation of **the asymptote**?

X	F(x)
-0.5	-0.631
0	0
2	1
8	2