

Name _____

Date _____

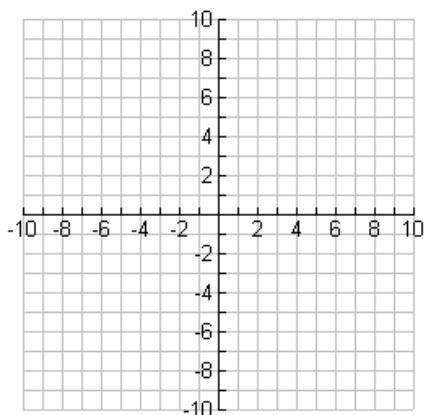
1. $y = \ln(x)$

Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

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

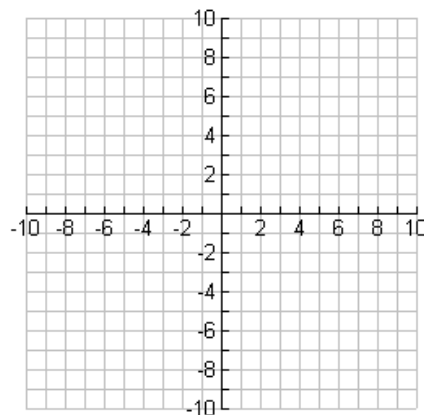
2. $y = e^x$

Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

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

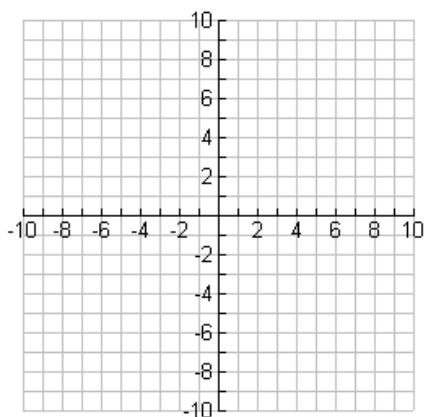
3. $y = \ln(x+2) - 1$

Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

X-Int: _____ Y-Int: _____

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

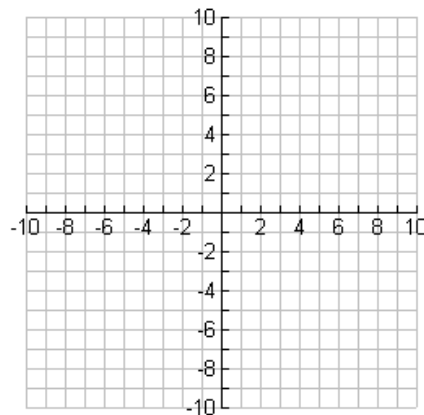
4. $y = e^{x-2} + 1$

Transformations: _____

Domain: _____ Range: _____

Asymptote: _____ Inc or Dec

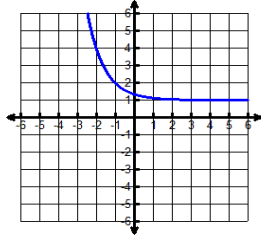
X-Int: _____ Y-Int: _____

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

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

B) What is the equation of the asymptote?

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

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

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

B) What is the equation of the asymptote?

C) Is this an Exponential Function or Logarithmic Function?

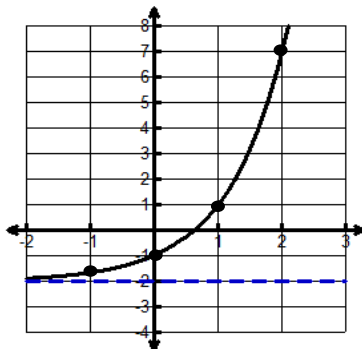
| X | F(x) |
|------|------|
| -1 | .111 |
| -0.5 | .193 |
| 0 | .333 |
| 1 | 1 |
| 2 | 3 |
| 3 | 9 |
| 4 | 27 |

8. 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 |

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



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

