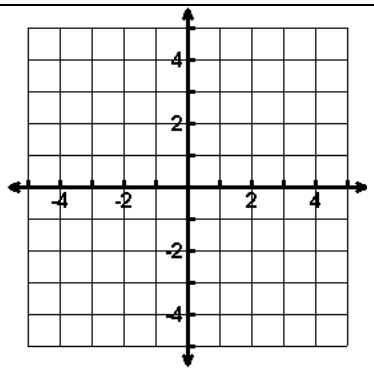
5B.3 - Homework: Graphing Logs Name_____

1. $y = \log_5(x-1)$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

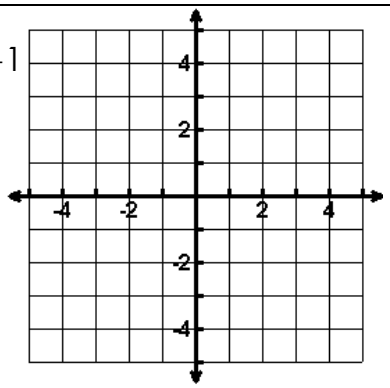
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to$ ____, $f(x) \to$ ____
$x \to$ ____, $f(x) \to$ ____

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



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

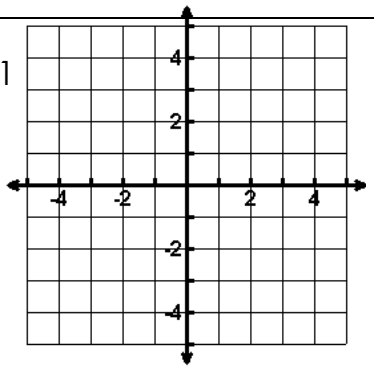
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to$ ____, $f(x) \to$ ____
$x \to$ ____, $f(x) \to$ ____

3. $y = -\log_3(x-1)-1$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

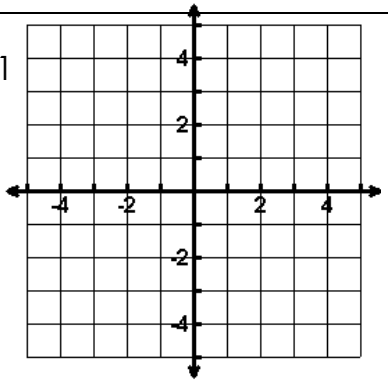
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to$ ____, $f(x) \to$ ____
$x \to$ ____, $f(x) \to$ ____

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



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

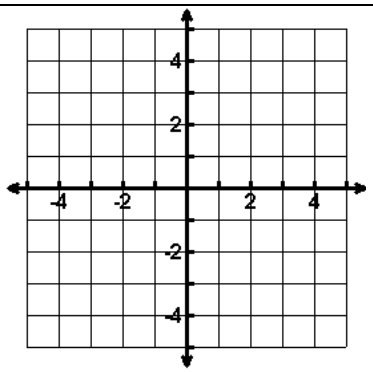
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to$ ____, $f(x) \to$ ____
$x \to$ ____, $f(x) \to$ ____

5. $y = \log_2(x-2)$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

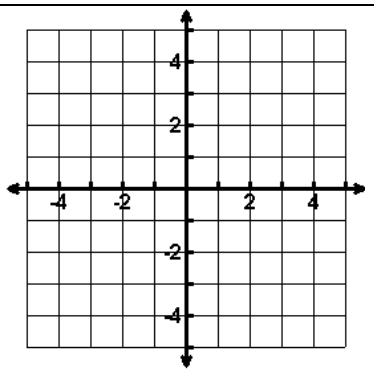
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to \_\_\_\_, f(x) \to \_\_\_\_$
$x \to \_\_\_\_, f(x) \to \_\_\_\_$

6. $y = \log_{\frac{1}{2}}(x+2)$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

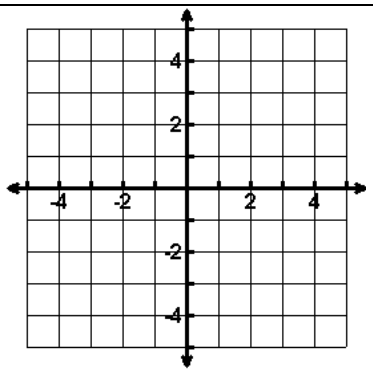
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to \_\_\_\_, f(x) \to \_\_\_\_$
$x \to \_\_\_\_, f(x) \to \_\_\_\_$

7. $y = \log_3(-x)$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

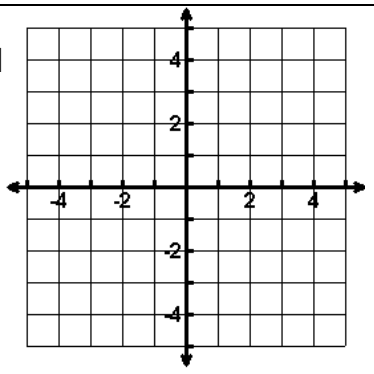
Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to \_\_\_\_, f(x) \to \_\_\_\_$
$x \to \_\_\_\_, f(x) \to \_\_\_\_$

8. $y = -\log_2(x-2)+1$



Transformations_____

State 3 points on Graph_____

Domain_____ Range_____

Asymptote_____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

End Behavior $x \to \_\_\_\_, f(x) \to \_\_\_\_$
$x \to \_\_\_\_, f(x) \to \_\_\_\_$