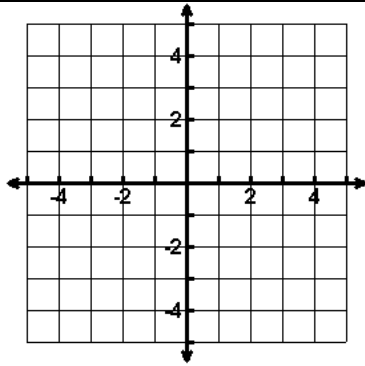


1. $y = \log_5(x - 1)$



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

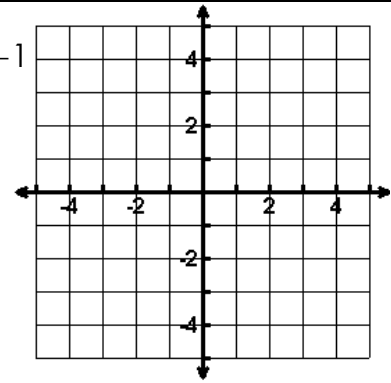
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

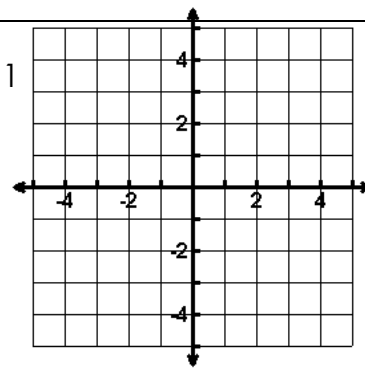
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

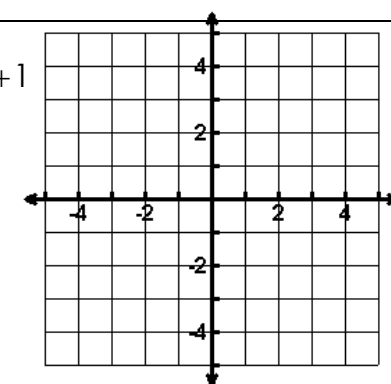
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

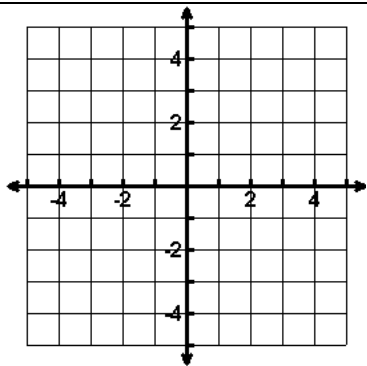
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

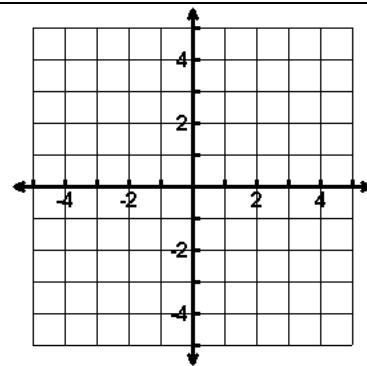
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

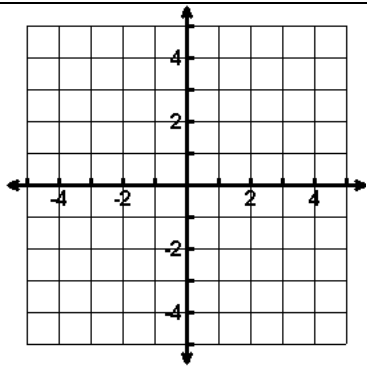
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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



Transformations _____

State 3 points on Graph _____

Domain _____ Range _____

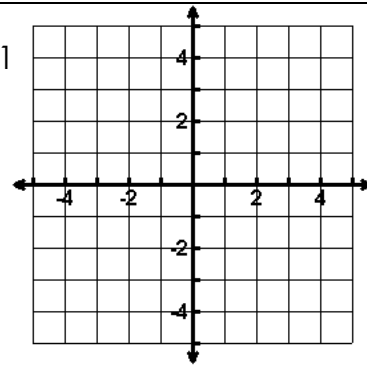
Asymptote _____

X-intercept _____ Y-intercept _____

Increasing or Decreasing

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

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