

Name: _____

Date: _____

Find the transformations:

1. $y = \log_b(x+2)$

2. $y = \log_b(x)+5$

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

4. $y = \log_b(-x+3)$

5. $y = -\log_b(x+2)-7$

6. $y = \log_b(-x)-4$

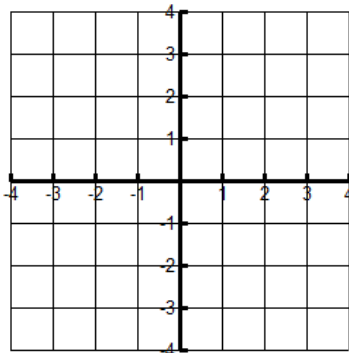
Find the asymptotes:

7. $y = \log_b(x+2)$

8. $y = \log_b(x)+5$

9. $y = -\log_b(x-1)$

10. $y = \log_4 x$



State 3 points on Graph _____

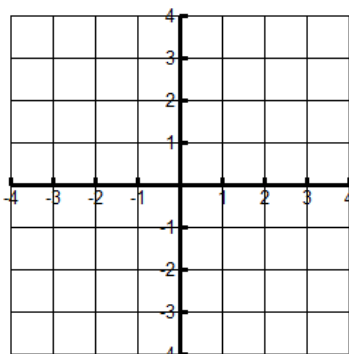
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing

X-intercept _____ Y-intercept _____

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

11. $y = \log_{\frac{1}{3}} x$



State 3 points on Graph _____

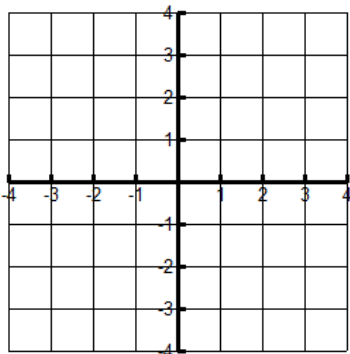
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing

X-intercept _____ Y-intercept _____

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

12. $y = \log_3(x + 2)$



Transformations: _____

State 3 points on Graph _____

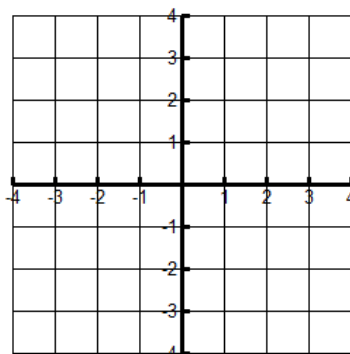
Domain _____ Range _____

Asymptote _____ Increasing or Decreasing

X-intercept _____ Y-intercept _____

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

13. $y = \log_2(x + 3) - 1$



Transformations: _____

State 3 points on Graph _____

Domain _____ Range _____

Asymptote _____ Increasing or Decreasing

X-intercept _____ Y-intercept _____

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