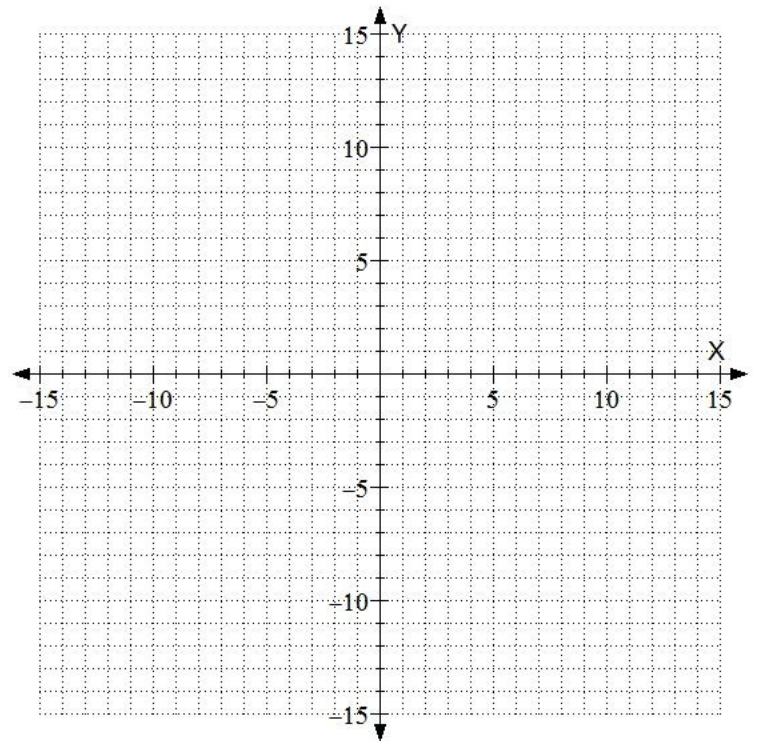


8.2 Transformations of Log Functions

For each of following functions,

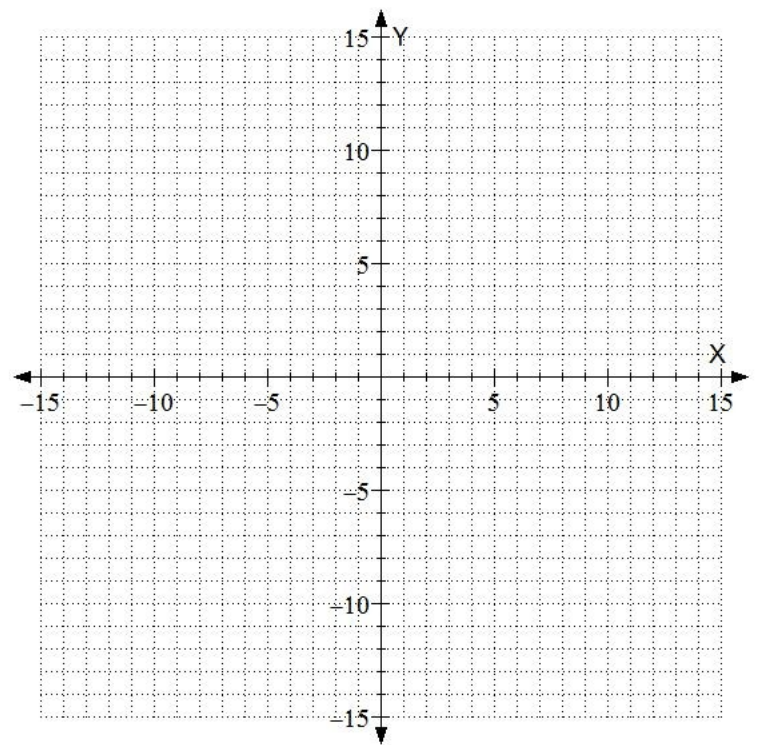
- Identify the base function and compute a table of values using the base function.
- Write a mapping rule that describes the transformations.
- Calculate the table of values of $f(x)$.
- Graph $f(x)$ and label key features.
- Determine the exact value of the x- and y-intercepts.
- Complete the table.

a) $f(x) = -4 \log_{10}(x+9) + 3$



x-intercept	
y-intercept	
Domain	
Range	
Eqn of Asymptote	

b) $f(x) = \log_{\frac{1}{2}}(-2x+8) - 1$



x-intercept	
y-intercept	
Domain	
Range	
Eqn of Asymptote	

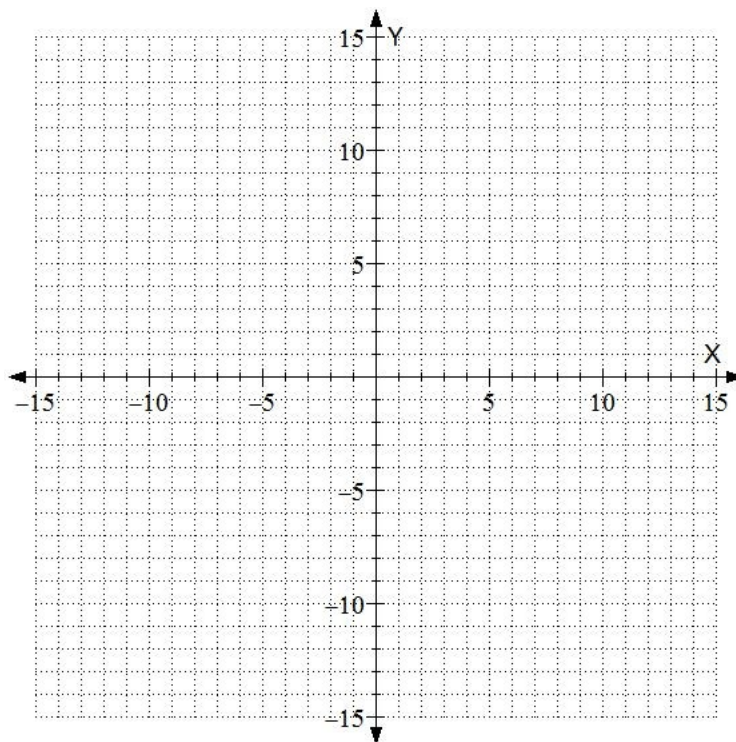
☺☺☺ THIS IS DUE AT THE END OF THE PERIOD ☺☺☺

For the function

$$f(x) = a \log_b(k(x-d)) + c$$

Choose any value for a, b, k, d, and c that also includes one type of reflections**and...**

- i) Identify the base function and compute a table of values using the base function.
- ii) Write a mapping rule that describes the transformations.
- iii) Calculate the table of values of $f(x)$.
- iv) Graph $f(x)$ and label key features.
- v) Determine the exact value of the x- and y-intercepts.
- vi) Complete the table.



x-intercept	
y-intercept	
Domain	
Range	
Eqn of Asymptote	