5-4 HW
Secondary III Lite

Name: _____
Period: _____

List the transformation of the following functions.

1. $f(x)=\log(x-1)$

2. $f(x)=\log(x+4)-7$

3. $g(x)=\ln(x)+9$

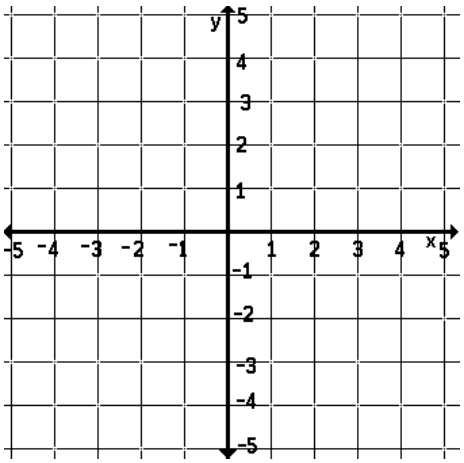
4. $g(x)=\ln(x+1)-3$

Identify the transformations and the asymptote. Then graph the function.

5. $f(x)=\log(x-1)-1$

Transformations:

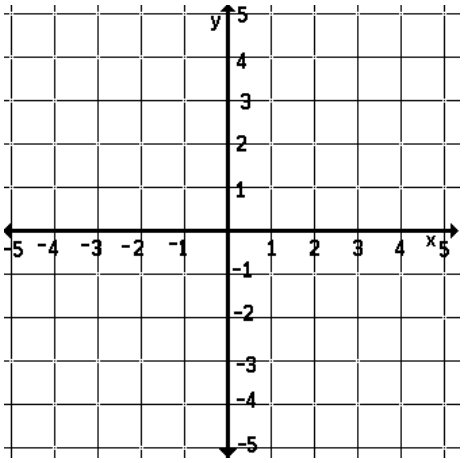
Asymptote:




6. $f(x)=\log(x+3)+1$

Transformations:

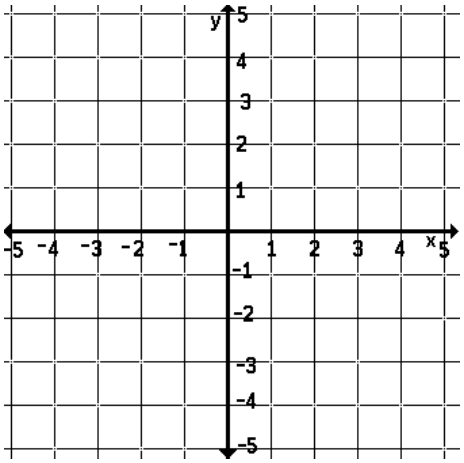
Asymptote:



7. $f(x) = \ln(x - 4) + 3$

***(4-4a)*** Transformations:

***(4-4c)*** Asymptote:




8. $f(x) = \log(x + 2) + 1$

Transformations:

Asymptote: