Secondary III 7-4 HW Name Selected Answers

List the transformation of the following functions.

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

- V. Stretch by 5
- Shift Right 1

2. $f(x)=\frac{1}{2}\log(x+4)-7$

3. $g(x)=2\ln(x)+9$

- V. Stretch by 2
- Shift Up 9

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

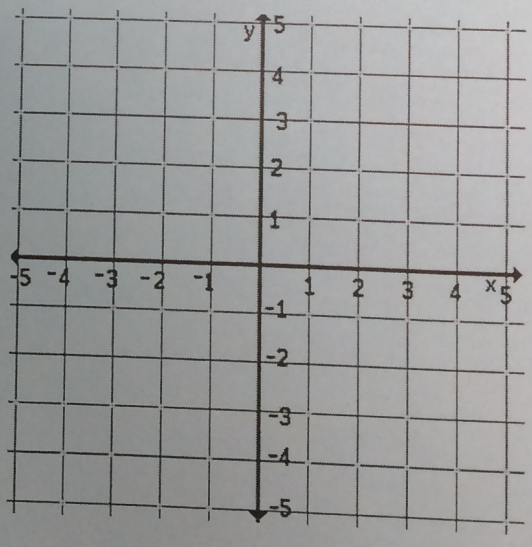
Identify the transformations. Then graph the function and state the domain and range.

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

Transformations:

Domain:

Range:



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

Transformations:

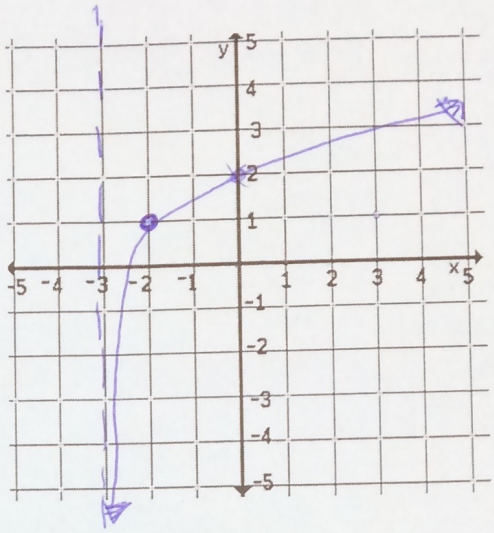
- Shift Left 3
- Shift Up 1

Domain:

$(-3,\infty)$

Range:

$(-\infty,\infty)$

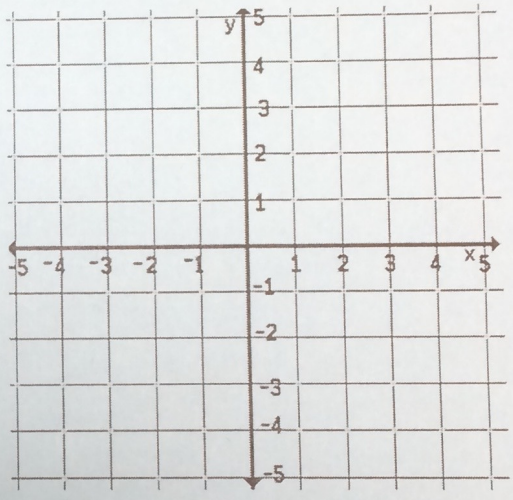


3. $f(x)=\ln(x-4)+3$

Transformations:

Domain:

Range:



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

Transformations:

- Shift Left 2
- Shift Up 1

Domain:

Range:

$(-\infty,\infty)$