

Logarithmic Functions

11-19-07

Page 308 1-31, not 4's

2. 0

6. $-\frac{2}{5}$

10. -4

14. -4

18. $-\frac{7}{2}$

22. 14

26. ≈ -0.042

30. ≈ -0.311

Logarithmic Functions

11-19-07

1. Solve the equation by changing it to exponential form.

$$\log x = 2$$

$$\log x = -1$$

2. Describe how to transform the graph of $y = \ln x$ into the graph of the following function.

$$f(x) = \ln(x+3)$$

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

$$f(x) = \ln(2-x)$$

Logarithmic Functions

11-19-07

3. Describe how to transform the graph of $y = \log x$ into the graph of the following function.

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

$$f(x) = -2\log(-x)$$

$$f(x) = 2\log(3-x) - 1$$