Shown Lewis

8.30.16

Mosth 108 Quiz 1

109 n = log n

 $\log_3 36 = \frac{\ln(36)}{\ln(3)} = \frac{3.26}{\ln(3)}$ 

n=36

3. Expand 
$$\log\left(\frac{x^3y}{\sqrt{10z}}\right)$$

1. 
$$(1/3) \log_{4}(x) - \log_{4}(y) - 2 \log_{4}(z)$$

$$\log_{4}(x)^{1/3} - \log_{4}(y) - \log_{4}(z)^{2}$$

$$\log_{4}(\frac{x^{1/3}}{y}) - \log_{4}(z)^{2}$$

$$\log_{4}(\frac{x}{y})^{1/3} - \log_{4}(z)^{2}$$

$$\log_{4}(\frac{x}{y})^{1/3} - \log_{4}(z)^{2}$$

$$\log_{4}(\frac{x}{y})^{1/3} - \log_{4}(z)^{2}$$

$$\times \ln(28) = -3\ln(5)$$
 $\ln(25) = \ln(25)$