

Semester 2 Week 5 Monday Warm-up

1.  $\log_{13} 432$

a) Rewrite by changing the base to base 10

b) Evaluate the expression in part(a)

Round answer to nearest hundredth.

2. Evaluate the expression

$$\log_3 \frac{1}{27} - 4^{\log_4 5}$$

Solve for x. Write your answer in both "calculator-ready" form and decimal form. Round answer to nearest hundredth if necessary.

3.  $5^{x-2} = 68$

4.  $17 - 5^x = -68$

Solve for x. Round answers to nearest hundredth if necessary.

5.  $\log_5(x-2) = 3$

6.  $2\log_3 x + \log_3 2 = \log_3(7x+15)$