

Adv Alg 2 Sem 2 Week 4 Tuesday Warm-up

Solve for x. Round to nearest hundredth if necessary. Show all work!

1.  $10^x = 675$

$$\log_{10} 675 = x$$
$$x \approx 2.83$$

2.  $3 = \log_5 x$

$$5^3 = x$$
$$x = 125$$

3.  $\log_x 36 = \frac{1}{2}$

$$x^{\frac{1}{2}} = 36$$
$$(x^{\frac{1}{2}})^2 = 36^2$$
$$x = 1,296$$

4.  $x = \log_2 256$

$$2^x = 256$$
$$2^x = 2^8$$
$$x = 8$$