

Bellwork Alg 2B Wednesday, October 25, 2017

1. Write each in logarithmic form.

a) $10^2 = x$

b) $x^3 = 729$

c) $9^x = 500$

2. Write each in exponential form.

a) $\text{LOG}_x 12 = 3$

b) $\text{LOG}_8 x = 1$

c) $\text{LOG}_5 9 = x$

3. Evaluate each. Round to the nearest hundredth as necessary.

a) $\text{LOG}_5 1$

b) $\text{LOG}_3 3$

c) $\text{LOG}_2 8$

d) $\text{LOG}_7(7^5)$

e) $\text{LOG}_{36} 6$

f) $\text{LOG}_2\left(\frac{1}{2}\right)$

g) $\text{LOG} 1000$

h) $\text{LOG} 54$

1. Write each in logarithmic form.

a) $10^2 = x$

$\log x = 2$

b) $x^3 = 729$

$\log_x 729 = 3$

c) $9^x = 500$

$\log_9 500 = x$

2. Write each in exponential form.

a) $\log_x 12 = 3$

$x^3 = 12$

b) $\log_8 x = 1$

$8^1 = x$

c) $\log_5 9 = x$

$5^x = 9$

3. Evaluate each. Round to the nearest hundredth as necessary.

a) $\log_5 1 = 0$

$5^? = 1$

b) $\log_3 3 = 1$

$3^? = 3$

c) $\log_2 8 = 3$

$2^? = 8$

d) $\log_7 (7^5) = 5$

$7^? = 7^5$

e) $\log_{36} 6 = \frac{1}{2}$

$36^? = 6$

$\sqrt{36} = 6$

$36^{1/2} = 6$

f) $\log_2 \left(\frac{1}{2}\right) = -1$

$2^? = \frac{1}{2}$

g) $\log 1000 = 3$

$10^? = 1000$

h) $\log 54 = 1.73$

DO THIS
USING A
CALCULATOR!