

(C2-3.2) Name:

## Homework Questions 2 – Writing an Expression as a Log

1. Rewrite the following as a logarithm

a)  $7^2 = 49$

c)  $2^6 = 64$

b)  $3^4 = 81$

d)  $5^3 = 125$

2. Rewrite the following as a power

a)  $\text{Log}_2 x = 24$

c)  $\text{Log}_5 14 = x$

b)  $\text{Log}_3 81 = 4$

d)  $\text{Log}_2 16 = 4$

3. Rewrite the following as a power and then solve.

a)  $\text{Log}_5 125 = x$

c)  $\text{Log}_7 343 = x$

b)  $\text{Log}_4 256 = x$

d)  $\text{Log}_3 243 = x$

4. Solve the following

a)  $2^x = 32$

c)  $\text{Log}_3 27 = x$

b)  $7^4 = x$

d)  $\text{Log}_6 36 = x$