Solve for the unknown.

1.)	\log_7	343	= x

$$2.\log_{\frac{1}{4}}64 = x$$

3.)
$$\log_x 1024 = 5$$

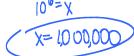
$$x^{5} = 1024$$
 $x^{5} = 4^{5}$
 $x = 4^{5}$

4.)
$$\log_x \frac{1}{625} = -4$$

$$X^{-4} = 625$$
 $X^{-4} = 5^{-4}$

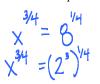
$$5.) \log x = 6$$

$$0^{6} = \chi$$



6.)
$$\log_{16} 4 = x$$

7.)
$$\log_x \sqrt[4]{8} = \frac{3}{4}$$



$$x^{3/4} = 2^{3/4}$$

$$\chi^{-2}$$

8.)
$$\log_{81} \frac{1}{9} = x$$

$$91^{x} = \frac{1}{9}$$
 $9^{2x} = 9^{-1}$



9.) Write three logarithmic expressions that are equivalent to the given expression. $log_5 125$