

MATHEMATICS

MATTHAYOM 4

Name: _____ No. _____ M.4/_____

LOGARITHMIC FUNCTIONS

Evaluate.

1. $\log_3 9 =$ because $3^{\quad} = 9$
2. $\log_7 49 =$ because $7^{\quad} = 49$
3. $\log_4 4 =$ because $4^{\quad} = 4$
4. $\log_5 1 =$ because $\quad = 1$
5. $\log_5 625 =$ because $\quad = 625$
6. $\log_3 243 =$ because $\quad = 243$
7. $\log_2 \left(\frac{1}{16}\right) =$ because $2^{\quad} = \frac{1}{16}$
8. $\log_3 \left(\frac{1}{9}\right) =$ because $\quad = \frac{1}{9}$
9. $\log_5 \left(\frac{1}{125}\right) =$ because $\quad = \frac{1}{125}$

Find x.

1. $\log_3 x = 4$ is equivalent $3^4 = x$ and thus $x =$
2. $\log_2 x = 5$ is equivalent $\quad = x$ and thus $x =$
3. $\log_5 x = -3$ is equivalent $\quad = x$ and thus $x = -$
4. $\log_6 x = -2$ is equivalent $\quad = x$ and thus $x = -$
5. $\log_{12} x = 0$ is equivalent $\quad = x$ and thus $x =$
6. $\log_{\frac{1}{4}} x = -2$ is equivalent $\frac{1}{4}^{\quad} = x$ and thus $x =$
7. $\log_{\frac{2}{5}} x = 2$ is equivalent $\frac{2}{5}^{\quad} = x$ and thus $x = - = -$

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