Common Logs

Common Logs are any logarithm that is written with the base _____.

Solve each equation or inequality.

$6^x = 40$ $2.1^{a+2} = 8.25$ $7^{x^2} = 20.42$

$5^{4n} > 33$ $6^{p-1} \leq 4^p$

Change of base – allows you to write equivalent log expressions that have different bases.

Express each log in terms of common logarithms.

$\log_3 8$ $\log_4 23$