

1. Write in exponential form.

a) $2 = \log_9 x$

b) $\log_5 125 = y$

2. Write in logarithmic form.

a) $2^{-4} = \frac{1}{16}$

b) $8^y = 300$

3. Evaluate.

a) $\log_3 27 =$

b) $\log_5 \frac{1}{\sqrt{5}} =$

c) $\log 100000 =$

d) $\log_7 1 =$

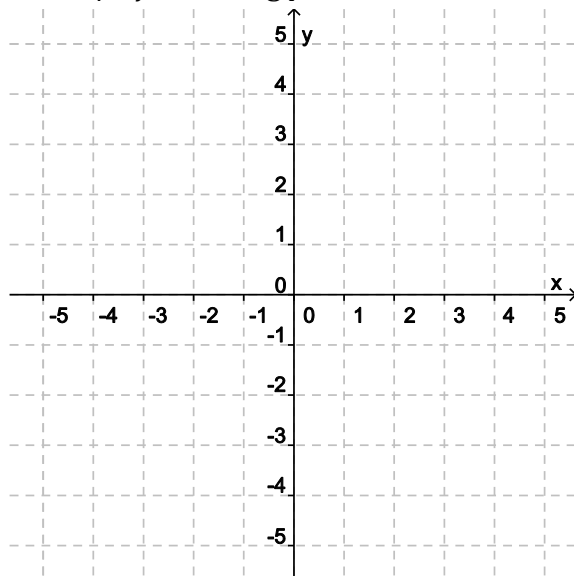
e) $\log_x x^4 =$

f) $6^{\log_6 18} =$

g) $e^{\ln 7x^2} =$

h) $\log 10^{99} =$

4. Graph $f(x) = \log_4 x$



5. What is the domain of $f(x) = \ln(7 - x)$?

Q: A man goes into a bar and asks for a glass of water. The barman pulls out a gun, and points it at the customer. "Thank you" replies the customer and walks out. What happened?