

Week 7 Quiz retake practice.

① When the x value of $y = \log_2(x)$ is multiplied by _____ the y increases by 1.

② $\ln\left(\frac{1}{e}\right) = -1$ because _____.

③ Write $7^2 = 49$ in logarithmic form

④ Write $\sqrt[3]{e} = \frac{1}{3}$ in exponential form.

⑤ Write $\log_6\left(\frac{1}{36}\right) = -2$ in exponential form.

⑥ Evaluate:

a) $\log_2\left(\frac{1}{2048}\right)$

b) $\log(0.1)$

c) $\log(4.5 \times 10^8)$

d) $\ln(\sqrt[4]{e})$

e) $\ln\left(\frac{1}{e^3}\right)$

Hint:
Math 5. →