

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

(iv)

$$\begin{aligned} \log 5.4 &= \log \frac{54}{10} \\ &= \log \left( \frac{2 \times 3 \times 3 \times 3}{10} \right) \\ &= \log(2 \times 3 \times 3 \times 3) - \log_{10} 10 \quad [\log, m \cdot n = \log, \frac{m}{n}] \\ &= \log_{10} 2 + \log_{10} 3^3 - \log_{10} 10 \quad [\log, mn = \log, m + \log, n] \\ &= \log_{10} 2 + 3\log_{10} 3 - \log_{10} 10 \quad [n \log, m = \log, m^n] \\ &= \log_{10} 2 + 3\log_{10} 3 - 1 \quad [\because \log_{10} 10 = 1] \\ &= a + 3b - 1 \quad [\because \log_{10} 2 = a \text{ and } \log_{10} 3 = b] \end{aligned}$$

(v)

$$\begin{aligned} \log 60 &= \log_{10} 10 \times 2 \times 3 \\ &= \log_{10} 10 + \log_{10} 2 + \log_{10} 3 \quad [\log, mn = \log, m + \log, n] \\ &= 1 + \log_{10} 2 + \log_{10} 3 \quad [\because \log_{10} 10 = 1] \\ &= 1 + a + b \quad [\because \log_{10} 2 = a \text{ and } \log_{10} 3 = b] \end{aligned}$$

(vi)

$$\begin{aligned} \log 3 \frac{1}{8} &= \log_{10} \left( \frac{25}{8} \times \frac{4}{4} \right) \\ &= \log_{10} \left( \frac{100}{32} \right) \\ &= \log_{10} 100 - \log_{10} 32 \quad [\log, \frac{m}{n} = \log, m - \log, n] \\ &= \log_{10} 100 - \log_{10} 2^5 \\ &= 2 - \log_{10} 2^5 \quad [\because \log_{10} 100 = 2] \\ &= 2 - 5\log_{10} 2 \quad [\log, m^n = n \log, m] \\ &= 2 - 5a \quad [\because \log_{10} 2 = a] \end{aligned}$$

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