
Calcul de logarithmes

■ Calculer

1) $\log_2(64) =$

2) $\log_{\frac{1}{3}}(27) =$

3) $\log_5(\sqrt{125}) =$

4) $\log_6\left(\frac{1}{\sqrt[3]{36}}\right) =$

5) $\log_{10}(0.0001) =$

6) $\log_{10}(1000) =$

7) $\log_{\frac{1}{7}}(49) =$

8) $\log_{16}\left(\frac{1}{4}\right) =$

9) $\ln\left(\frac{1}{e^5}\right) =$

10) $\ln\left(\frac{1}{\sqrt[3]{e}}\right) =$

11) $\ln(\sqrt{e}) =$

12) $\log_2(0.125) =$

■ Solutions

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$$\log_2(64) = 6$$

$$\log_{\frac{1}{3}}(27) = -3$$

$$\log_5(\sqrt{125}) = \frac{3}{2}$$

$$\log_6\left(\frac{1}{\sqrt[3]{36}}\right) = -\frac{2}{3}$$

$$\log_{10}(0.0001) = -4.$$

$$\log_{10}(1000) = 3$$

$$\log_{\frac{1}{7}}(49) = -2$$

$$\log_{16}\left(\frac{1}{4}\right) = -\frac{1}{2}$$

$$\ln\left(\frac{1}{e^5}\right) = -5$$

$$\ln\left(\frac{1}{\sqrt[3]{e}}\right) = -\frac{1}{3}$$

$$\ln(\sqrt{e}) = \frac{1}{2}$$

$$\log_2(0.125) = -3.$$

- Calculer sans utiliser la calculatrice, sachant que $\log 2 = 0,30103$ et $\log 3 = 0,477121$:

1) $\log\left(\frac{1}{\sqrt[3]{6}}\right)$

2) $\log(9)$

3) $\log\left(\frac{27}{2}\right)$

4) $\log(324)$

5) $\log\left(\frac{1}{\sqrt{3}}\right)$

■ Solutions :

$$1) -\frac{\log(2)}{3} - \frac{\log(3)}{3}$$

$$2) 2 \log(3)$$

$$3) 3 \log(3) - \log(2)$$

$$4) 2 \log(2) + 4 \log(3)$$

$$5) -\frac{\log(3)}{2}$$

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