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$$\log_5 16$$

$$\log_2 4$$

$$\log_8 0.25$$

$$-\log 0.0025$$

$$- (\quad)$$

The intensity I of the 1906 San Francisco earthquake was approximately $50,118,000 I_0$. Find the Richter scale magnitude of this quake.

$$\begin{aligned} M &= \log \frac{I}{I_0} \\ &= \log \text{—————} \\ &= \end{aligned}$$

If the molarity of $[H^+]$ in a solution is 3.45×10^{-5} , find the pH.

$$pH = -\log[H^+] = -\log[H_3O^+]$$

$$= -\log$$

$$= -\left(\quad \right)$$

We have 3 significant figures!

$$=$$

Note: We have 3 decimal places in our solution!