Name in English

Change of Base Formula

Express each logarithm in terms of common logarithms. Then approximate its value to the nearest ten-thousandth.

1. $\log_7 18 = \frac{\log_{10}}{\log_{10}} \approx$

2. $\log_3 31 = \frac{\log_{10}}{\log_{10}} \approx$

3. $\log_4 9 = \frac{\log_{10}}{\log_{10}} \approx$

4. $\log_3 11 = \frac{\log_{10}}{\log_{10}} \approx$

5. $\log_6 33 = \frac{\log_{10}}{\log_{10}} \approx$

LIVEWORKSHEETS