

Homework – Exponential and Logarithmic Forms

Write in logarithmic form:

1.

$$2^3 = 8$$

2. $81^{\frac{1}{2}} = 9$

3. $8^{\frac{2}{3}} = 4$

4. $e^5 \approx 148.4$

Write in exponential form:

5.

$$\log_5 125 = 3$$

6. $\log_2 \frac{1}{8} = -3$

7. $\log_{25} 125 = \frac{3}{2}$

8. $\ln 74 \approx 4.3$

Evaluate without a calculator:

$$\log_2 32 =$$

$$\log_9 243 =$$