

Expanding and Condensing Logarithms

A) Expand each expression.

1) $7 \log_e \left(\frac{g^5}{h^2} \right) =$ _____

2) $\log_a \left(\frac{x^4}{y^2 z^3} \right) =$ _____

3)

Preview

4)

5)

B)

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1)

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2) $8 (\log_e 9 - \log_e 2) =$ _____

3) $\frac{1}{6} (5 \log_2 3 + \log_2 k) =$ _____

4) $(27 \log_6 m + 12 \log_6 n) - 3 \log_6 p =$ _____

5) $3 \log_8 u - 2 \log_8 v =$ _____