## PROPERTIES OF LOGARITHMS

$$\log_b m + \log_b n = \log_b (m \cdot n)$$

$$\log_b m - \log_b n = \log_b (\frac{m}{n})$$

$$\log_b m^p = p \cdot \log_b m$$

$$|\log x + \log (x + 3) = 1|$$

$$|\log (x^{2} + 3x)| = 1$$

$$|\log (x^{2} + 3x)| = 10$$

$$|\log (x^{2} + 3x)| = 10$$

$$|x^{2} + 3x = 10|$$

$$|x^{2} + 3x - 10 = 0|$$

$$|(x + 5)(x - 2) = 0|$$

$$|(x + 5)(x - 2) = 0|$$

$$|\log_{7}(1 - x)|$$

$$|-5 = 6|$$

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$$|-5 = 6|$$