

# Logarithm Memorization Sheet

assume:  $b > 0, b \neq 1$

$$b^x = a \quad \log_b a = x$$

$$\log_b mn = \log_b m + \log_b n$$

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

$$\log_b a^p = p \log_b a$$

$$b^{\log_b x} = x \quad \log_b b^x = x$$