

Change of Base Rule (A)

$$\log_a(b) = \frac{\log_c(b)}{\log_c(a)}$$

Change $\log_4(15)$ into logs of base 7.

$$\frac{\log_7(15)}{\log_7(4)}$$

Change $\log_2(8)$ into logs of base 5.

$$\frac{\log_5(8)}{\log_5(2)}$$