

$$2 \log_3 6 - \log_3 4 = \frac{2(\log(2) + \log(3))}{\log(3)} - \frac{2 \log(2)}{\log(3)} = -\frac{\log(4) - 2 \log(6)}{\log(3)} = \frac{\log(9)}{\log(3)} = 2$$