3. a)

$$\log_5 625 = \log_5 5^3 = 3$$

b)

$$\log_{\frac{1}{2}} 4 = \log_{2^{-1}} 2^2 = \frac{2}{-1} = -2$$

4. a)

$$\log \frac{5}{3} = \log 5 - \log 3 = 0,6990 + 0,4771 = 1.7161$$

b)

$$\log 50 = \log 10 + \log 5 = 1 + 0,6990 = 1,699$$