

$$b) \log_3 \left(\frac{a^2 \sqrt{bc}}{\sqrt[5]{(a+b)^3}} \right) \rightarrow \log_3 [a^2 \cdot \sqrt{bc}] - [\log_3 \sqrt[5]{(a+b)^3}]$$

$$\rightarrow \log_3 a^2 + \log_3 \sqrt{bc} - [\log_3 [(a+b)^3]^{\frac{1}{5}}] \rightarrow$$

$$\rightarrow 2 \log_3 a + \log_3 (bc)^{\frac{1}{2}} - [\frac{1}{5} \cdot \log_3 (a+b)^3] \rightarrow$$

$$\rightarrow 2 \log_3 a + \frac{1}{2} [\log_3 (b \cdot c)] - \frac{3}{5} \log_3 (a+b) \rightarrow$$

$$\rightarrow 2 \log_3 a + \frac{1}{2} [\log_3 b + \log_3 c] - \frac{3}{5} \log_3 (a+b) \rightarrow$$

$$\rightarrow 2 \log_3 a + \frac{1}{2} \log_3 b + \frac{1}{2} \log_3 c - \frac{3}{5} \log_3 (a+b) //$$

$$c) \log \left(c \cdot \frac{\sqrt[3]{a \cdot (a+b)^2}}{\sqrt{b}} \right) \rightarrow$$

$$\log c + \log \left(\frac{\sqrt[3]{a(a+b)^2}}{\sqrt[3]{\sqrt{b}}} \right) \rightarrow \log c + \log \sqrt[3]{a(a+b)^2} -$$

$$\log \sqrt[6]{b} \rightarrow \log c + \log [a \cdot (a+b)^2]^{\frac{1}{3}} - \log b^{\frac{1}{6}} \rightarrow$$

$$\log c + \log [a^{\frac{1}{3}} \cdot (a+b)^{\frac{2}{3}}] - \log b^{\frac{1}{6}} \rightarrow$$

$$\log c + \log a^{\frac{1}{3}} + \log (a+b)^{\frac{2}{3}} - \frac{1}{6} \log b \rightarrow$$

$$\log c + \frac{1}{3} \log a + \frac{2}{3} \log (a+b) - \frac{1}{6} \log b //$$