i)
$$\log \frac{3}{\sqrt{3}} \rightarrow \log \frac{3}{\sqrt{3}} = \chi \rightarrow (\sqrt{43})^{\chi} = \sqrt{3}$$

$$\frac{\chi}{3} = \frac{3}{3} \Rightarrow \frac{\chi}{3} = \frac{2}{3} \Rightarrow \frac{\chi}{4} = \frac{2}{3} \Rightarrow \chi = \frac{8}{3}$$

$$\frac{1 - \frac{1}{3} = \frac{3 - 1}{2} = \frac{2}{3}}{3} \Rightarrow \frac{\chi}{3} = \frac{2}{3} \Rightarrow \chi = \frac{8}{3}$$

B.111 . Resolução : 13

$$\frac{1}{\sqrt{3}} \int_{3}^{1} \frac{1}{27} = \chi \qquad \Rightarrow \left(\frac{3}{9}\right)^{\chi} = \sqrt{27} \Rightarrow 9^{3} = \left(\frac{1}{27}\right)^{\chi}$$

$$(3^{2})^{\frac{1}{3}} = (\frac{1}{3^{3}})^{\frac{1}{2}} \rightarrow 3^{\frac{2\times}{3}} = (3^{-3})^{\frac{1}{2}} \rightarrow 3^{\frac{2\times}{3}} = 3^{\frac{2\times}{3}}$$

$$\frac{2x}{3} = -\frac{3}{2} \rightarrow 4x = -9 \rightarrow x = -\frac{9}{4}$$

$$\frac{\log}{\sqrt{9}} \int 8 = y \rightarrow (\sqrt{9}/\sqrt{5})^y = \sqrt{8} \rightarrow 0.5^3 = 8^2 \rightarrow 0.5^3 = 8^2$$

$$\left(\frac{1}{2}\right)^{\frac{1}{3}} = \left(2^{3}\right)^{\frac{1}{2}} \rightarrow \left(\frac{1}{2}\right)^{\frac{3}{3}} = 2^{\frac{3}{2}} \rightarrow \left(\frac{1}{2}\right)^{\frac{3}{3}} = \left(\frac{1}{2}\right)^{\frac{3}{3}} \rightarrow$$