

$$4) \lim_{x \rightarrow -2} \frac{\sqrt[3]{x-6} + 2}{x+2} = \lim_{x \rightarrow -2} \frac{(x-6)^{\frac{1}{3}} + 2}{x+2} =$$

$$= \lim_{x \rightarrow -2} \frac{\frac{1}{3} (x-6)^{-\frac{2}{3}}}{1}$$

$$= \lim_{x \rightarrow -2} \frac{1}{3} \frac{1}{\sqrt[3]{(x-6)^2}}$$

$$= \frac{1}{3} \frac{1}{\sqrt[3]{64}} = \frac{1}{12}$$