

$\lim_{x \rightarrow \left(-\frac{1}{p}\right)^+} \frac{14x - \left[-\frac{1}{x^p}\right]}{x^p + \left[\frac{p}{x^p}\right]}$

$x > -\frac{1}{p} \rightarrow 0 < x^p < \frac{1}{p} \xrightarrow{\text{Ostos}} \frac{1}{x^p} > p \xrightarrow{x(-p)} \frac{-p}{x^p} < -1 \rightarrow \left[\frac{-p}{x^p}\right] = -9$

$x > -\frac{1}{p} \rightarrow 0 < x^p < \frac{1}{p} \rightarrow p < \frac{1}{x^p} \xrightarrow{x^p} 1 < \frac{p}{x^p} \rightarrow \left[\frac{p}{x^p}\right] = 11$

$\frac{14x + 9}{x^p + 11} = \frac{11}{-11^+ + 11} = \frac{1}{0^+} = +\infty$

↓

$\left(x > -\frac{1}{p} \xrightarrow{x^p} x^p > -11\right)$

$\lim_{x \rightarrow p^+} \frac{x^p - p}{x^p - 1} = \frac{(x-p)(x+p)}{(x-1)(x^p + p + px)} = \frac{p}{p+p+p} = \frac{1}{3}$

$\lim_{x \rightarrow -1} \frac{x^p + 10x + 14}{12 + 4\sqrt[3]{x}}$

$\lim_{x \rightarrow -1} \frac{12x + 10}{4} = \frac{-2}{4} = -\frac{1}{2}$

$\lim_{x \rightarrow 0^-} \frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}}$

$\frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}} = \frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}} = \frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}} = \frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}} = \frac{\sqrt{p+px} - \sqrt{p-x}}{\sqrt{1-\cos p}}$

$(-1) \left(\frac{p}{\sqrt{p}} + \frac{1}{\sqrt{p}} \right) = (-1) \left(\frac{p+1}{\sqrt{p}} \right) = -\sqrt{p}$