## Resolução p2 de cálculo – Clarisse Midori

Prova P2 · Calcula I · prof. Claudia Perma
man for the 20 Diamen Tapper
$00 \lim_{x \to 1} \frac{x^2 - 1}{x \to 1} = \lim_{x \to 1} \frac{(x + 1)(x)}{(x)} = \lim_{x \to 1} \frac{(x + 1) = 1 + 1}{(x)}$
$\lim_{x \to 1} \frac{x^2 - 1}{x - 1} = 2 \xrightarrow{i \to 1} \lim_{x \to 1} \frac{x^2 - 1}{x - 1} = 2$
$ \frac{\partial \lim_{x \to 1} \frac{x^2 + x - 2}{x^2 - x} \frac{\lim_{x \to 1} \frac{(x + 2)(x - 1)}{x}}{\lim_{x \to 1} \frac{(x + 2)(x - 1)}{x}} = \lim_{x \to 1} \frac{x + 2}{x} $
$\lim_{x \to 1} \frac{1+z}{1} = 3  \text{o'o } \lim_{x \to 1} \frac{x^2 + x - 2}{x^2 - x} = 3$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{3x^{4} + x}{x^{2} - 20} = \lim_{x \to \infty} \frac{3x^{4} + x}{x^{2} + x^{2}} = \lim_{x \to \infty} \frac{3 + \frac{1}{x^{2}}}{x^{2} - x^{2}} = \lim_{x \to \infty} \frac{3 + \frac{1}{x^{2}}}{x^{2} - x^{2}}$
$\frac{2 \cdot 1 \cdot 1}{1 \cdot 1 \cdot 1} = \frac{1 \cdot 1 \cdot 1}{1 \cdot 1 \cdot 1} = \frac{1 \cdot 1}{1 \cdot 1 \cdot 1} = \frac{1 \cdot 1}{1 \cdot 1} = \frac{1 \cdot 1}$
(2) o tenema do comprento define um limite
por "exclusão", ou seja, temdo aixis 6(x) se
$\lim_{x \to K} \alpha(x) : \lim_{x \to K} c(x) = C, \text{ emtão limb(x)} = C.$
$\frac{\lim_{x\to 0} x^2 \operatorname{sen}^{\frac{1}{2}} \operatorname{os}^{\frac{1}{2}} \operatorname{os}^{\frac{1}{2}} \operatorname{sen}^{\frac{1}{2}} \operatorname{os}^{\frac{1}{2}}}{\lim_{x\to 0} x^2 \operatorname{os}^{\frac{1}{2}} \operatorname{os}^{\frac{1}{2}} \operatorname{os}^{\frac{1}{2}}}$
x - 0 1/20
«'· lim x² sem /x² = 0



