Whista 2-Discente-Paulo Henrique Diviz de lun Alexan.

$$\lim_{x\to 1} \frac{2x+3}{(x-1)^2} \to \frac{2\cdot 1+3}{(1-1)^2} \to \frac{5}{6} \quad \text{vov preciser celouler } \lim_{x\to 1^+} \frac{1}{(x)} \in \lim_{x\to 1^-} \frac{1}{(x)}$$

$$\lim_{x\to 1^+} \frac{2x+3}{(x-1)^2} \stackrel{\text{d}}{\oplus} \rightarrow +\infty$$

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come lim
$$f(x) = \lim_{x \to 1^+} f(x) = \lim_{x \to 1^-} f(x) = \frac{1}{2} \lim_{x \to 1^+} f(x) = \frac{1}{2} \lim_{x \to 1^+}$$

$$\lim_{x\to 1^{-}} \frac{2x+3}{(x-1)^{3}} \xrightarrow{-\infty}$$

Lim
$$(8-x^3)$$
 \Rightarrow $\lim_{x\to -\infty} (-\infty)^3 = +\infty$

$$\frac{78}{50} = \frac{100}{500}$$

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$$\frac{1}{2} \lim_{x \to -\infty} \frac{1}{x^2} = +\infty 1$$

$$(2x-3)(2x-3) = (2x)^2 + 2 \cdot 2x \cdot (3) + (-3)^2$$

$$(4x^2 - 12x + 5)(2x - 3)$$

$$(4x^2 - 12x^2 - 24x + 36x - 3)$$

h)
$$\lim_{x \to +\infty} \frac{(2x-3)^3}{x(x+1)(x+2)}$$

$$-9 \underbrace{\frac{8\times^{3}-12\times^{2}+12-22}{\times^{3}+2\times^{2}+2\times}}_{\chi^{3}+2\chi^{2}+\chi^{2}+2\chi} - 3 \underbrace{\frac{8\times^{3}}{3}-3}_{\chi^{3}} = 8$$

$$\times 3+2\chi^{2}+\chi^{2}+2\chi$$

$$\lim_{x \to +\infty} \frac{(2x-3)^{\frac{x}{2}}}{x(x+1)(x+2)} = 8$$