Mil Lista 1 -

Discente - Paulo Henrique Diniz de Linz Alencar.

(28). d) Resolução:

 $\lim_{X \to -4} \frac{3x^2 - 5x + 4}{2x + 1} \to \frac{3 \cdot (-1)^2 - 5 \cdot (-1) + 4}{2(-1) + 1} \to \frac{3 \cdot 1 + 5 + 4}{-2 + 1} \to \frac{02}{-1} = -12$

(30) hy Resolução:

 $\lim_{x \to -2} \frac{8 + x^3}{4 - x^2} \to \frac{0}{0} \to \text{indetermined}$, entrol $\lim_{x \to -2} \frac{8 + x^3}{4 - x^2}$, como x = -2 é raiz, entre $\lim_{x \to -2} \frac{8 + x^3}{4 - x^2}$, $\lim_{x \to -2$

 $\frac{x^{3}+8}{-x^{3}-2x^{2}} \frac{1}{x^{2}-2x+4} = \frac{x^{3}+8}{(x+2)} \cdot (x^{2}-2x+4)$ $\frac{x^{3}+8}{-2x^{2}} \frac{1}{x^{2}-2x+4} = \frac{x^{3}+8}{(x+2)} \cdot (x^{2}-2x+4)$ $\frac{x^{3}+8}{-2x^{2}+4} = \frac{x^{2}-2x+4}{(x+2)} = \frac{x^{3}+8}{(x+2)} = \frac{x$

 $\frac{0+4x+8}{-4x-8} \Rightarrow \frac{4-2\cdot(-2)+4}{-(-2)+2} \Rightarrow \frac{4+4+4}{4} = \frac{12}{4} = 3/1$

(33). $\frac{1}{x}$ $\frac{2x^2+9x+9}{x+3}$ so $x \neq -3$ mostre tem $\frac{1}{x}$ $\frac{1}{3}$ $\frac{1}{x}$ $\frac{1}{3}$ $\frac{1}{x}$ $\frac{1}{3}$ $\frac{1}{x}$ $\frac{1}{3}$ $\frac{1}{$

 $\frac{2 \times ^{2} + 9 \times + 9}{-2 \times ^{2} - 6 \times} = \frac{(2 \times ^{2} + 9 \times + 9}{2 \times ^{2} + 9 \times + 9} = (2 \times ^{2} + 9 \times + 9)$ $\frac{(2 \times ^{2} + 9 \times + 9}{(2 \times ^{2} + 9 \times ^{2} + 9 \times + 9)} = \frac{(2 \times ^{2} + 9 \times$

41.) b) Revoluçãos

him $2-\sqrt{x+1}$ $\Rightarrow 0$ inde termined on $\sqrt{2-\sqrt{x+1}}$ $2+\sqrt{x+2}$ $\Rightarrow 2^2-(\sqrt{x+1})^2$ $x \Rightarrow 3$ x^2-9 $\Rightarrow 0$ inde termined on $\sqrt{2-9}$ $(2+\sqrt{x+1})$

 $\frac{3}{x^{2}-5}\left(\frac{2+\sqrt{x+1}}{2+\sqrt{x+1}}\right)^{-\frac{x+3}{2}}\frac{-x+3}{(x-3)(-x+3)\left(\frac{2+\sqrt{x+1}}{2+\sqrt{x+1}}\right)^{-\frac{1}{2}}}\frac{1}{(-x-3)\left(\frac{2+\sqrt{x+1}}{2+\sqrt{x+1}}\right)^{-\frac{1}{2}}}\frac{1}{(-3-3)\cdot(2+\sqrt{x+1})^{-\frac{1}{2}}}$

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(43) d) Renolinas;

 $\lim_{x \to 2} \frac{\int x^2 + x - 2i - \int x^2 - x + 2}{\int x^2 + x - 2} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i + 2} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i + 2} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i + 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i + 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 + x - 2i - \int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i - 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int x^2 - x + 2i}{\int x + 2i} \to \frac{\int$

$$\frac{(\sqrt{x^{2}+x^{-2}} - \sqrt{x^{2}-x^{2}}) \cdot (\sqrt{x^{2}+2})}{(\sqrt{x^{2}+x^{-2}})^{2} - 2^{2}}$$

$$\frac{(\sqrt{x^{2}+x^{-2}})^{2} - 2^{2}}{(\sqrt{x^{2}+x^{-2}})^{2} - (\sqrt{x^{2}-x^{2}})^{2}} \cdot (\sqrt{x^{2}+2})$$

$$\frac{(\sqrt{x^{2}+x^{-2}})^{2} - (\sqrt{x^{2}-x^{2}})^{2} \cdot (\sqrt{x^{2}+x^{-2}})}{(x^{-2}) \cdot (\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})} \cdot (\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})$$

$$\frac{(2x-4) \cdot (\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})}{(x-2) \cdot (\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})}$$

$$\frac{2(\sqrt{x^{2}} + \sqrt{x^{2}-x^{2}})}{(x-2) \cdot (\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})}$$

$$\frac{2(\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})}{(\sqrt{x^{2}+x^{-2}} + \sqrt{x^{2}-x^{2}})}$$

$$\frac{2(\sqrt{x^{2}+x^{2}} + \sqrt{x^{2}-x^{2}})}{(\sqrt{x^{2}+x^{2}} + \sqrt{x^{2}-x^{2}})}$$

$$\frac{2(\sqrt{x^{2}+x^{2}} + \sqrt{x^{2$$