$$M = \frac{2m-1}{m+9} | m \in \mathbb{N}^{\frac{3}{5}}$$

$$n+9 \neq 0 = 7 m \neq (-9) \leftarrow nemoine$$

julihor $n \in \mathbb{N}$

$$\frac{2n-1}{n+9} = \frac{2 \cdot (n+9) - 8 - 1}{n+9} = \frac{2 \cdot (n+9)}{n+9} - \frac{9}{n+9} = 2 - \frac{9}{n+9}$$

$$2 - \frac{9}{1+5} = 2 - \frac{9}{5} = \frac{1}{5}$$

$$\frac{1}{5} \leq 2 - \frac{9}{n+4} \leq 2 = 7 \text{ mnorinn je omerenn'}.$$

$$f(x) = \frac{1}{x^2} + 2$$

fee nem produ

 $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$

$$\lim_{t\to 0} \theta' = 0$$

$$g(x) = \frac{6x + 5}{3x - 6}$$

$$\frac{6AA}{3x-6} = 2 + \frac{17}{3x-6} = 2 + \frac{17}{3x-$$

$$5-6x = y(6-3x)$$

$$\frac{3}{6-3x} = y$$

$$\frac{6x+5}{3x-6} = y = 7y = 91$$

$$\frac{2/9}{f(x) = \frac{2-x^2}{x^2+1}}$$

$$\frac{2-x^2}{t^2+1} = \frac{2-(x^2+1)+1}{x^2+1} = -1 + \frac{3}{x^2+1}$$

 $x^{2} = 20$ $0 < \frac{3}{3} = 3$

$$-1 \left(-1 + \frac{3}{12+1} \right) \leq 2$$

$$\text{for je ombremá}$$

2/10

$$f(x_1) - f(x_2) = \frac{1}{x_2^2} - \frac{1}{x_2^2} = \frac{x_2^2 - x_3^2}{x_2^2 x_2^2}$$

pro x, x & (-so; 0)

pro t, t ∈ (0; 20)

$$\frac{\chi^{2} < \chi_{1}^{2} = 7 \times 10^{10} \times 10^{10}}{\chi_{1}^{2} - \chi_{1}^{2} < 0} \times 10^{10} \times$$

$$x_1^2 \langle x_2^2 = 7 x_2^2 - x_3^2 \rangle 0$$

fee je klesajin'

bel je roslova

$$\frac{3/3-\alpha)}{pro x_0=0}$$

$$\lim_{x \to 0} f(x) = \frac{2x^2 - 1/x + 5}{3x^2 - 1/x - 5} = \frac{5}{-5} = -1$$

$$\lim_{x \to -25} f(x) = \frac{(2x-1)(x-5)}{(3x+1)(x-5)} = \frac{2x-1}{3x+1} = \frac{9}{16}$$

$$\lim_{x\to 700} f(x) = \frac{7}{3}$$
 (de provide pro $\frac{6}{50}$)

$$\lim_{t \to 1} f(t) = \frac{\lambda^3 - \lambda^2 - x + 1}{\lambda^3 - \frac{4}{3} + \frac{2}{3} + 5x - 7} = \frac{1 - 1 - 1 + 1}{1 - \frac{4}{3} + \frac{5}{3} - \frac{2}{3}} = \frac{0}{0}$$

$$\frac{x^{2}(x-1)-(x-1)}{(x-1)\cdot(x^{2}-3x+2)} = \frac{(x-1)(x^{2}-1)}{(x-1)\cdot(x^{2}-3x+2)} = \frac{(x^{2}-7)}{x^{2}-3x+2} = \frac{(x+7)\cdot(x-1)}{(x-2)\cdot(x+1)} = \frac{(x+7)\cdot(x-1)}{(x-2)\cdot(x+1)} = \frac{x+7}{x-2} = 7 \lim_{x\to 2} f(x) = \frac{717}{x-2} = \frac{717}{x-$$

$$prox_0 = 2^+ a 2^-$$

He lay
$$\frac{x+7}{x-7} = \frac{7+7}{7-2} = \frac{3}{6} = 7$$
 fine $f(x) = 0$

pro x=0

$$\frac{3}{1-\lambda^3} + \frac{1}{\lambda-1} = \frac{3}{1} + \frac{1}{1} = \frac{2}{1}$$

$$\frac{3}{1-1} + \frac{1}{1-1} = \frac{3}{6} + \frac{1}{0} t \ln \frac{3}{1}$$

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

$$=\frac{-7 \cdot (x^2 + x - 2)}{(x - 1) \cdot (x^2 + x + 1) \cdot -1} = \frac{(x - 1) \cdot (x + 2)}{(x - 1) \cdot (x^2 + x + 1)} = \frac{x + 2}{\lambda^2 + x + 1} \Rightarrow \frac{7 + 2}{1 + 7 + 7} = \frac{3}{3} = 1$$

prox x 30

$$\frac{3}{1+\cos^3} + \frac{1}{(\cos^2 - 1)} = \frac{3}{\cos^2 + \frac{1}{\cos^2 - 1}} = \frac{3}{\cos^2 + \frac{1}{\cos^2 - 1}$$