Note Title 27/09/2022

## CVICENIE HA 2. 25 2022-2026

## DELGUIE POLYNÓMON:

PP: 
$$(x^{3}-1)$$
;  $(x+1)$   $= x^{2}-x.+1$ 

$$-x^{3}+x^{2}$$

$$+x^{2}+x$$

$$-x+1$$

$$-x+1$$

$$-x+1$$

HOENEROVA SCHEMA

$$\frac{92}{1} = \frac{3}{2} - \frac{2}{3} + \frac{12}{4} = 0$$

$$\frac{1}{2} + \frac{1}{2} = \frac{12}{4} + \frac{12}{4} = 0$$

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 0$$

$$(x - \frac{1}{2})(4x^2 - 2x + 6) = 0$$

$$2(x - \frac{1}{2})(2x^2 - x + 9) = 0$$

PARCIALNE ZLOTICY:

$$\frac{92}{x^2-5} = \frac{2x-5}{(x-3)(x-2)} = \frac{A}{(x-3)} = \frac{A}{$$

$$ex - 5 = A(x-2) + B(x-3)$$

$$2 = A + B$$
 (-2  
-5 = -2A - 35

$$\Theta \xrightarrow{1} + \frac{1}{(x-2)}$$

$$\frac{9k:}{(x-3)(x-2)} = \frac{2x-5}{(x-3)(x-2)}$$

OBLEZITE LIMITY

$$\lim_{X \to \pm \infty} \frac{1}{x} = 0$$

lin 
$$\lim_{x\to 0} \lim_{x\to 0} \frac{1}{x} = 1$$

Limity

Lin  $\lim_{x\to 0} \frac{1}{x} = 1$ 

V PEVDOM

BODE

Lin  $e^{x-1} = \ln e = 1$ 
 $e^{x} = 1$ 

Lin  $e^{x} $e^{x} = 1$ 

Lin

TYP 
$$\lim_{x \to \infty} \left(1 + \frac{1}{x}\right)^{x} = 0$$
 $\lim_{x \to \infty} \left(\frac{x-1}{x+1}\right)^{x} = \lim_{x \to \infty} \left(\frac{x+1-1}{x+1}\right)^{x}$ 
 $\lim_{x \to \infty} \left(1 - \frac{1}{x+1}\right)^{x} = \lim_{x \to \infty} \left(1 + \frac{1}{x+1}\right)^{x}$ 

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

QR. 
$$\lim_{x \to \infty} \left(\frac{1}{x}\right) = \lim_{x \to \infty} \left(\lim_{x \to \infty} \frac{1}{hx}\right) = \lim_{x \to \infty} \left(\lim_{x \to \infty}$$