1 HOSPITAL OVO lim f(x) = 0 4 note (coxally +cx) We lim $\frac{f(x)}{g(x)} = \lim_{x \to x_0} \frac{f'(x)}{g'(x)}$ MALL P.S. $\frac{f'(x)}{g'(x)}$ Pol lim x2-1 2 lim (x2-0) = lim 2x = 2

x-1 24 x-21 (x-0) = 2m 2x = 2 End lin x 2-3 for lin 22 = -13. Prol lin luly = lim = = = = 1 x->1 1-x UH x->1 = = -1

PE +(x) = (x +5) 3 2x-1 Dt= (-00;+00) A) lim (X+5) 3 = X-> tox lim 3 = +00 - +00. 3 = +00: +00 line 3 = 0 LIMTU! PRECHOD B) lim (X+5) 3 = -00 3 = -00.0 NEDET 2 MOZNE POSTUPY PRECH d) lim (x+5) = 0 x→-∞ (3-2x+1) 1 EXPONENCIALM FUNKIE POSTE B) lim $\frac{(x+5)}{3^{-2x+1}} = \lim_{x \to -\infty} \frac{1}{3^{2x+1}(-2)} = \frac{1}{3^{+\infty}(-2)} = \frac{1}{3^$ (32x+1)= 52x+1 ln(3) . (-2)

Per
$$f(x) = \ln x$$

$$x - 1$$

$$D_{p} = (0; 1)U(1; +\infty)$$
A) $\lim_{x \to +\infty} \frac{\ln x}{x - 1} = \frac{+\infty}{+\infty}$

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

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LIM PRECH

$$y = f(x_0)(x - x_0) + f(x_0)$$

$$P_{\text{od}} f(x) = x^3 - 12 \times +10$$

$$y = 0(x-2) - 6 = -6$$

$$y = 1(x-1) + ln(2) = x - 1 + ln(2)$$

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

 $f(x) = 2^{1+x^2}$
 $f(x) = 2^{1+x^2}$
 $f(x) = 1 + 1 = 2x + 3$
 $f(x) = 1 + 2 = 0$
 $f(x) = 1 + 2 =$

Monotonie funkce

$$f'(x) > 0$$
 $+x \in I \Rightarrow f$ rosle $v \in I$
 $f'(x) < 0$ $+x \in I \Rightarrow f$ Albasi $v \in I$
 $f'(x) < 0$ $+x \in I \Rightarrow f$ Albasi $v \in I$
 $f'(x) < 0$ $+x \in I \Rightarrow f$ Albasi $v \in I$
 $f'(x) = 0$ $xo \in \mathbb{R}_{f}$ is abscious in local

Pri Usiale intervolg monotonie, soundnie los explane

 $f(x) = \frac{x^{3}}{3} - \frac{7x^{2}}{2} + 12x + 5$
 $f'(x) = x^{2} - 7x + 12 = (x-3)(x-4)$
 $f'(x) = x^{2} - 7x + 12 = (x-3)(x-4)$
 $f'(x) = 0$
 $f'(x) =$

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