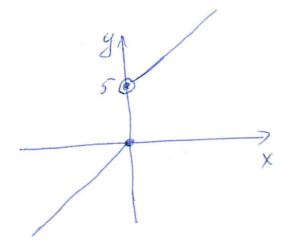
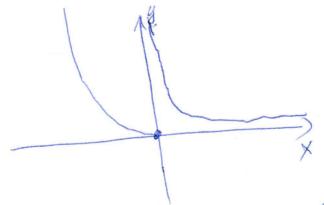
$$f(x) = \begin{cases} x, & x \leq 0 \\ x+5, & x > 0 \end{cases}$$



(2) pynnegens uz 17. 1.

u

$$f(x) = \begin{cases} x^2, & x \leq 0 \\ \frac{1}{x}, & x > 0 \end{cases}$$



onjegerena l 0, no ne uneem spezer

$$3) \quad \mathcal{L}(x) = x^3 - x^2$$

a) 
$$D(\ell) = (-9; +9)$$
;  $E(\ell) = (-9; +9)$ 

$$\int \int \chi^{3} - \chi^{2} = 0$$

$$\chi(\chi - 1) = 0$$

2) 
$$f'(x) = 3x^2 - 2x = 3x (x - \frac{2}{3})$$

bozpacmaem: (-9;0) V(\frac{2}{3};+9)

g) 
$$f(-x) = -x^3 - x^2 \neq f(x) \neq -f(x)$$

G) 
$$\lim_{X \to 70} \frac{3x^3 - 2x^2}{4x^2} = \lim_{X \to 70} \frac{3x - 2}{4} = -2$$

S)  $\lim_{X \to 70} \frac{\sqrt{1 + x'} - 1}{3\sqrt{1 + x'} - 1} = \lim_{X \to 70} \frac{3x - 2}{4} = -2$ 

=  $\lim_{X \to 70} \frac{\sqrt{1 + x'} - 1}{3\sqrt{1 + x'} - 1} \cdot \frac{(1 + x)^{\frac{2}{3}} + \sqrt{1 + x'} + 1}{(1 + x)^{\frac{2}{3}} + \sqrt{1 + x'} + 1} \cdot \frac{(\sqrt{1 + x'} + 1)}{\sqrt{1 + x'} + 1} = \lim_{X \to 70} \frac{x}{x} \cdot \frac{(|1 + x|)^{\frac{2}{3}} + \sqrt{1 + x'} + 1}{\sqrt{1 + x'} + 1} = \frac{3}{2}$ 

K &

(2) 
$$\alpha$$
.  $\lim_{x\to 0} \frac{\sin 2x}{4x} = \frac{1}{2} \lim_{x\to 0} \frac{\sin 2x}{2x} = \frac{1}{2}$ 

b lum 
$$\frac{x}{x \to 0} = \lim_{x \to 0} \frac{1}{\sin x} = 1$$

c lim 
$$\frac{x}{avcsinx} = \lim_{x \to 0} \frac{1}{avcsinx} = 1$$