Speciel grynnegill 4 a ceno we whoch fin/V+ = fo (x+2) If Pynnepeus, us remercingans spepered Onpegeneur 6 moure 2 no mener 6 pasport X0 = 2 + (2/=0) lim d(x/=1, lim d(x/=0. Y= 2 - morro paydorlo 3). P(x) = x 3-x2 Obracio juarenne u orfepenence A)= R Van de = X

Repen pynnym H un sparmoer d(x)=0, npy x=1 ux=0 Ky = 1 - mo ena nevermuois efammo es 4 V2 = 0 - morro temuois uparuoera 6) Compeynes quano user vienceste dx/<0 npu  $x \in [-\infty; 1]$  d(x)>0 npu  $x \in [1; +\infty]$ 1) Cureplanos momentos (0) (0;1) Pyrregue Coplaciaci upu x c (- 0,0/1/2, +09 Tynnepul yrockaei upu xc (0, 3) of remucero opyunyun ty 6 (1; + 0) D(1): f(x)>0 +x € (-0,1) P(1) f(x) < 0 levennear gyruguel Pyraper OTigero Capo e) Orfamorermoció heofaverence lin 13-x2 = lin 1 + 1 x = = -00

lim x3-x2 = lim 1+ 1 + 1 + 1 = + 00 sel Anchuopersuo 61V+7/= 1x+7/3-1x+7/2 a)  $\lim_{x \to 0} \frac{3x^3 - 3x^2}{4x^2} = \left(\frac{0}{0}\right) = \lim_{x \to 0} \frac{x^2/3x - 2}{4x^2} = \frac{3x - 2}{4} = \frac{2}{4}$ lim 3x3-2x2 = -1  $\frac{\sqrt{5}}{x} = \frac{\sqrt{1+x} - \sqrt{1+x} - \sqrt{1+x} + \sqrt{3}\sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x} + \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x}}{\sqrt{1+x} - \sqrt{1+x}} = \frac{\sqrt{1+x}}{\sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x}}{\sqrt{1+x}} = \frac{\sqrt{1+x}}{\sqrt{1+x}} = \frac{\sqrt{1+x} - \sqrt{1+x}}{\sqrt{1+x}} = \frac{\sqrt{1+x}}{\sqrt{1+x}} = \frac{$ 9 Cim (x+3)4x+1 lim (x+3)4x+1

x > 0 (x + 3)4x+1

= Cim (x+3)4x+1

= Cim (x+3)4x+1 zein e 12 x +3 = e12

## Sinky = fin (finx) = 1 d)  $e_{im}$  (4x+3)6x?  $e_{im}$  (4x+3)6x?  $e_{im}$   $e_{im}$   $e_{im}$   $e_{im}$ ?  $e_{im}$   $e_{im}$   $e_{im}$   $e_{im}$ ?  $e_{im}$   $e_{im}$   $e_{im}$ ? = 1+1-00