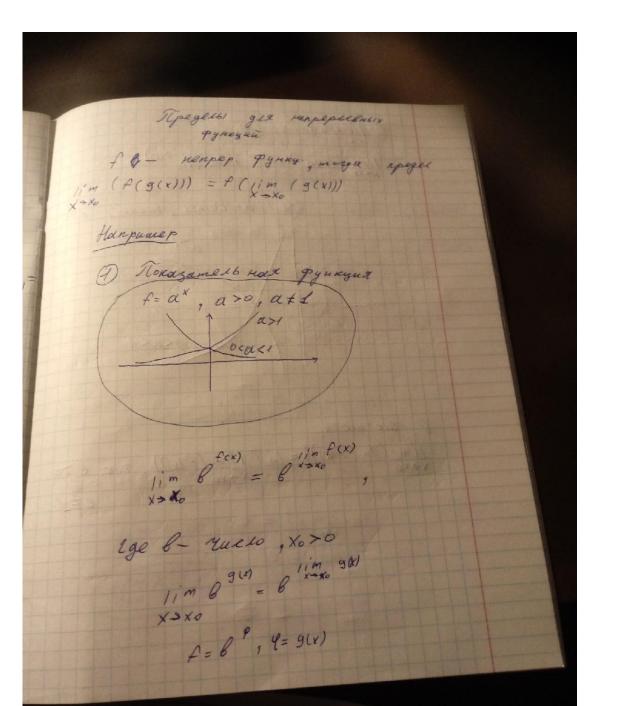
= 1im (x-1)(x2+x+1)(x+1) = 1im (x-1)x+ = [(-1)] = [-1] = 0 Robroperue ? 18.05 1) loga & = c. 10gab; Inb = c.Inb 2) 10gab · C = 10gab+ 10ga (; In(BC)= 3) 109a = 109a B - 10ya C; In = - InB-Inc 41 Ecu P= C => In B= In C 5) 109x8 = C <=> 0= ac Inf= e <=> 8=2°



D lorapagamer, 9. 1;m (109a f(x)) = 109a(1;m Aco) ege a-const, tueso; do oxax1 Q rectnocta

2 73 23 1) 1im x = [0] у=х× приогаризмир ... In y = In x = X · In x nuturgein reposeds sel u npal river 11m (1ny) = 11m (x.lnx) = [In (11m g)]= $= \left[0.00 \right] = \lim_{t \to 0} \frac{\ln x}{x} = \left[\frac{sp}{sp} \right] = \lim_{t \to 0} \frac{4ht}{-4tx} =$ = 1 im x.(-1) = 1 im -x = 0 = x +0 x.(-1) = 1 im -x = 0 > npal 4 In (\im y) = 0 1im 4 = e° = 1

(15m Xx=1)

2) 11 m (cosx) = [7] y = (cosx) * In y = In (1 cosx) x) Iny = A. In cosx lim(lny) - 1im (x 'ln (cosx)) $\lim_{x\to 0} \left(\frac{1}{x} \ln(\cos x)\right) = \left[\infty \cdot 0\right] = \lim_{x\to 0} \frac{\ln(\cos x)}{x} =$ = [=] = 1;m cosx · (-s;nx) = 1;m (-tgx) = 0 In (1im 4) = 0 limy = 00 11m y= 1 =>

lim (cosx) =+ 1'm x 69x = 607 Iny = 1- XItax = tax -lax 1/m (1ny) = 1n(1/m y) lim tgx.lhx 11 m (Egx lox) = [000] = 11 m (crgv · lnx) x do ctgx = [00] 1; m = - 1 im x = [] = - 1 im x = [] = = - 11m es 2. sinx (cosx) =- 11m (2. sinx (cosx)=

 $\left(\begin{array}{c}
1 \text{ im} & \frac{\sin^2 x}{x} = 1 \text{ im} \\
x \to 0 & \frac{\sin^2 x}{x} = 1 \text{ im} \\
1 \text{ im} & \sin x = 1 \text{ im} \\
x \to 0 & \cos x
\end{array} \right)$ In (1im y)=0

lim y=0

x+0 11 my=1 1im x ±9x = 1 x →0 074è·Thi

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