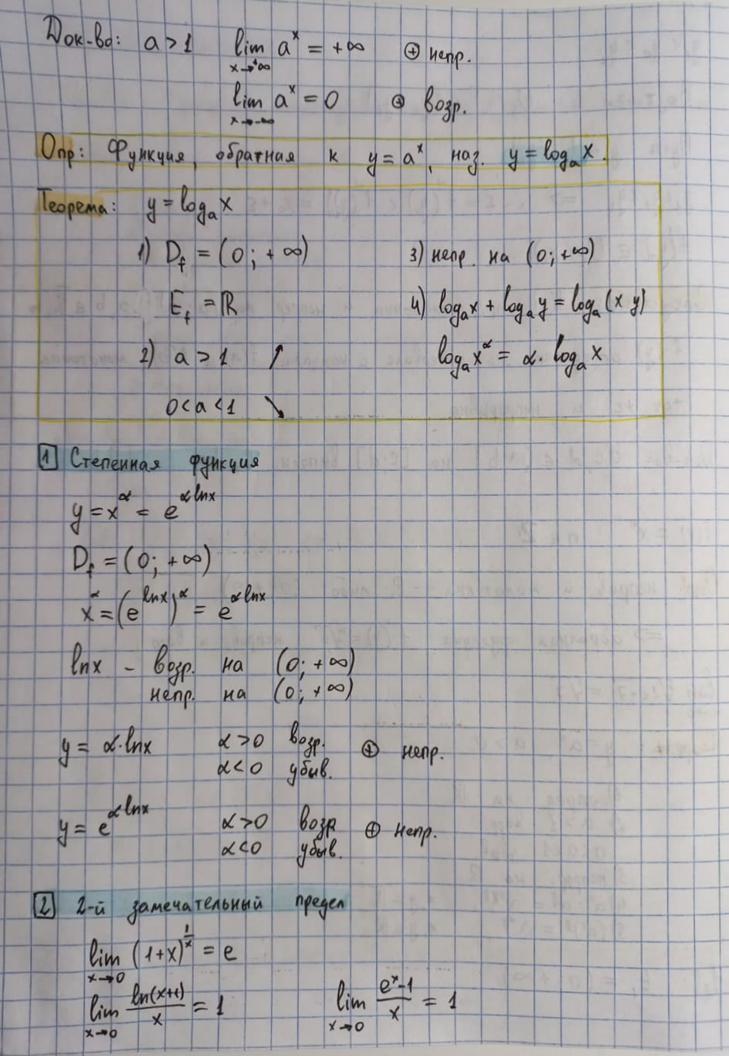


4, < 40 < 42 Bosonem 8: Us (yo) a (y1; y2) Nyers y & Us (y.) y. (y. 2y2 => x-E=f(y.) < f(y2) = X0 + E f(y) ∈ U,(x) Chegerbue: f(x) onp., MOHOTOHHA U HERPEP. HA (a; b) a, b = R, TO f (y) определена на интервале с конуами f(a) и f(b), моноточна так не и непрерывна. DOK-BO: UC, d E (a; b) Ha [C; d] BHNONN. Ch la datb.  $f(x) = x^n$   $n \in \mathbb{N}$ Unp: Henpub. 4 MONOTONNA R MUSO (0:+0) => обратная функция + (у) = Ту неприв. и возр. lim \$12x+7 = \$77 Teopena: y=ax, a>0 1) onpeg. Ha IR 2) a > 1 80gg. 0<a<1 your 3) menpep. Ha IR x, y E R 5) (ax) = axy x, y = R y, l: E, = (0; +∞)

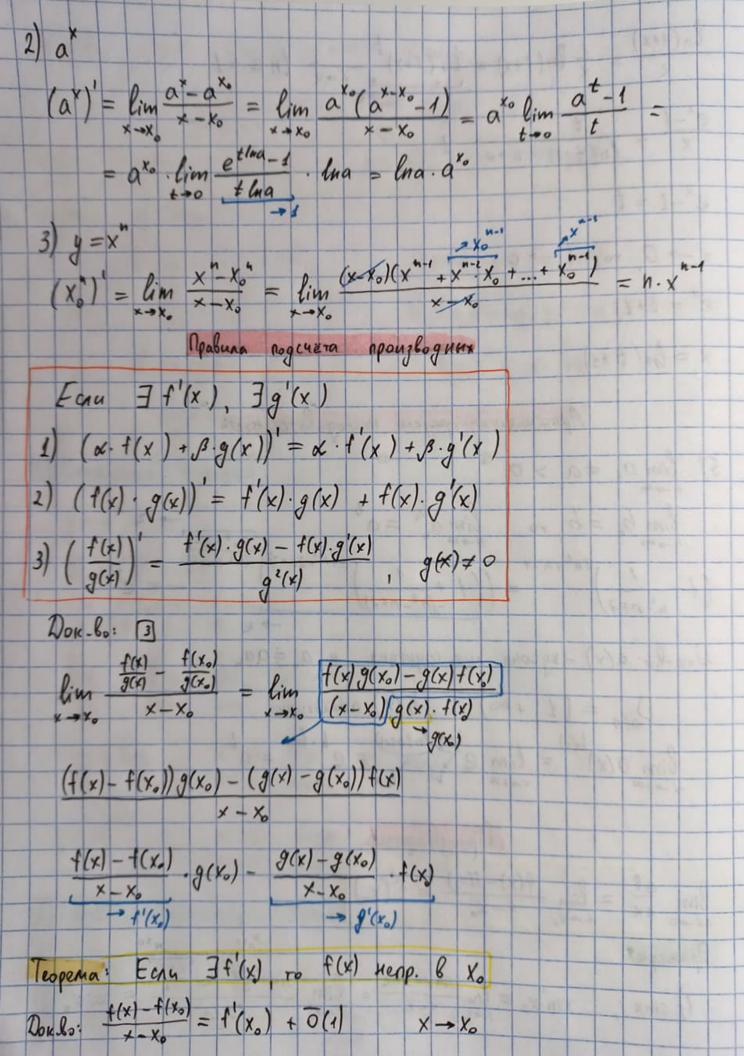


$$\frac{\ln(1+x)}{x} = \frac{1}{x} \ln(1+x) = \ln(1+x) \frac{1}{x}$$

$$\frac{e^{x}-1}{x} = \frac{1}{x} \ln(1+x) = \frac{1}{x} \ln(1+x) = \frac{1}{x} \ln(1+x)$$

$$e^{x}-1 = \frac{1}{x} \ln(1+x) = \frac{1}{x} \ln(1+x) = \frac{1}{x} \ln(1+x)$$

$$\frac{e^{x}-1}{x} = \frac{1}{x} \ln(1+x) + \frac{1}{x} \ln(1+x) = \frac{1}{x} \ln(1+x)$$



$$f(x) = f(x_0) + f'(x_0)(x - x_0) + \overline{O}(x - x_0)$$

lim  $f(x) = f(x_0)$ 
 $x \to x_0$