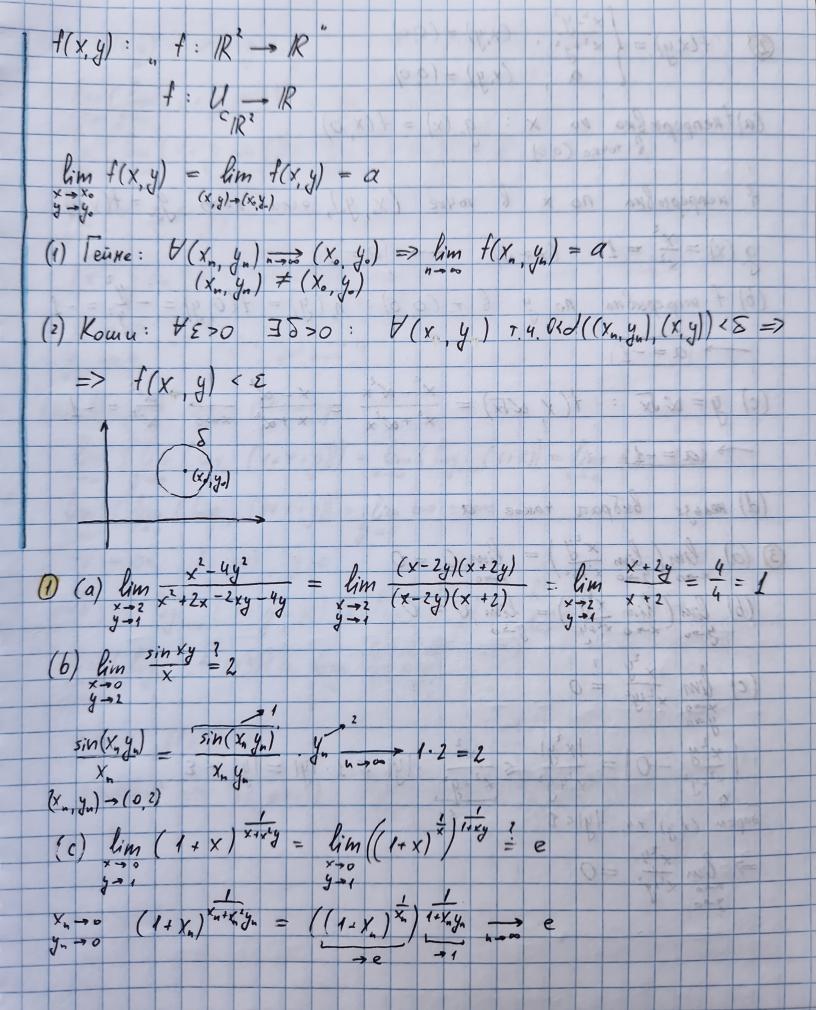
Cemurop 26, 23.04.24

(a) 
$$f(x) = \ln(4 + 3x - x^2) = \ln((4 - x)(1 + x)) = \ln(4 - x) + \ln(1 + x); x_0 = 2$$
 $f(x) = \ln(4 + 3x - x^2) = \ln((4 - x)(1 + x)) = \ln(4 - x) + \ln(1 + x); x_0 = 2$ 
 $f(x) = \ln(4 + 3x - x^2) = \ln(4 + 3x) = \ln(4 - x) + \ln(4 + x) = 2$ 
 $f(x) = \ln(4 + 3x - x^2) = \ln(4 + x) + \ln(4 + x) = 2$ 
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 $f(x) = \ln(4 + x) + \ln(4 + x) = 2$ 
 $f(x) = \ln(4 + x) + \ln(4$ 



D 
$$f(x,y) = \int_{x-y}^{x-y} (x,y) \neq (0,0)$$

(a) then pepulsus wo  $x: g_{o}(x) = f(x,0)$ 

f hence pepulsus no  $x$  broke  $(x_{o}, y_{o})$ , evan hence  $g_{o} = f(x,y)$ 
 $g(x) = \frac{x}{x} = 1$   $(x \neq 0) \rightarrow (a = 1)$ 

(b) the pepulsus no  $g$  broke  $(x_{o}, y_{o})$ , evan hence  $g_{o} = f(x,y)$ 
 $(x_{o} = x) = f(x_{o} = x)$ 

(c)  $g = x J_{x} : f(x_{o} = x) = \frac{x^{2} + x^{2}}{x^{2} + x^{2}} = 0$ 
 $f(x,y) = f(x,y) =$ 

(b) 
$$f(x,y) = x + y \sin \frac{1}{y}$$
 $\lim_{x \to 0} \left( \lim_{x \to y} (x + y \sin \frac{1}{y}) \right) = \lim_{x \to 0} x = 0$ 
 $\lim_{x \to 0} \left( \lim_{x \to y} (x + y \sin \frac{1}{y}) \right) = \lim_{x \to 0} (y \sin \frac{1}{y}) = 0$ 
 $\lim_{x \to 0} \left( \lim_{x \to y} (x + y \sin \frac{1}{y}) \right) = 0$ 
 $\lim_{x \to 0} \left( \lim_{x \to y} (x + y \sin \frac{1}{y}) \right) = 0$ 
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