Irimit5 0.001 01 - (). 061 7-6.56

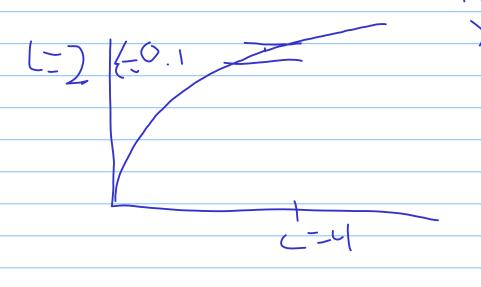
Epsilon = y-tolerance Delta = x-tolerance

If I pick any epsilon, no matter how small,

I can find a delta such that:

if x is within Delta units of our input,

y is within epsilon units of our output



(c1-6,4+5)

14-8-1. 14-8-1.

1-5-3(1

LH 5- 1:1

0.41 =)

if (=0,1) \sum_{\infty} \(\tau_{\infty} \)

JU-8=2-E VII-13=2+E

7=6.99

pos

1 i h / = 17 x. = 33

E 0.0065

- la . . -

0.919

Indeterminate form

(= 2 Stim) 5 5(3) - 5(1)5(2+4)-5(2-6)

 $\frac{1}{(-2)(2+h)}$ $\frac{5(2+h)-5h}{h}$

lim 5 (2+h) - (12) im + (x+h) - + (x) h= 6.25 2 0

lim ((xth)-(x) Derivative: Instantaneous rate of change Slope of the tangent line F(X) = 2 X + 3

+(X)=ZX2 1 in 2 (x+4) - 2x2 > (x2+2xh+ 1-)-2x= 744 1/Xh +7h2 = 2x2 YXX +2hZ UX +2h 1, m 4x +21 - 4x f(x) = 4x

$$(2-1)^{2}$$
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