```
Pievicust
   of - 1. (x19x need to approximate of : f(x+0x)-1(x1
  now we want to expressionate DF - F(x+0x,1+01)-fox,11
: l90
   dT = Fxcx, ylox + Fxcx, yloy
                                                       , linear fundion of Dx, Dx
coppoxim:
   07 = 35 => 1(x+0x,1+01) = 5(x,1) + Fx(x,1)0x+Fx(x,1)0y
Geodien Vector
  where
     X . < x ..... x ...
crity Jegar wateriou are continued specially gesoupe private althoughout of month parapher
     h . < h . . . , h . >
   F(x+h) = f(x) + 4)(x).h re db . 4)(x).h
Theorem
                                 I is continuously dillestable in neighborhood of a
   I(x) her commous has ades partes desirables
   in a legion that contains the neighborhood 13-2145
   if (ii) + if. (s) (t + (s) ( - (ii) is) ( = bearbothers n int n is) if is
                                                                        ellet in the live opplax
  where E(h). (e,th),..., e,th)> appeares of as h-o
      \frac{(h) \cdot h}{(h) \cdot h} = (h) \cdot \frac{h}{(h)} + \dots + e_n(h) \cdot \frac{h}{(h)} \longrightarrow 0 \text{ at } h \rightarrow 0
divide by |h|
o=(\hat{n}) \ni mil: \frac{\hat{n}(5)}{\hat{n}(5)} = (\hat{n}) = (\hat{n}) + (\hat{n}) = 0
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red-Jaled Knotion 5(x) is distributed to show that the Land to the test that the state of the st

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How was some and ad of many ad no (5) To (6) To (6) To (6) To (7) To (6) To (6) To (7) To (7)

-> 1 (2) exists only is compount as communities as the still limit obase exists of the state of the second state of the second