```
Indeferminate form: "certain type of expression with a limit that is not evident by inspection"
     - these de soudal times :
                                     Jers let modition alo at x=a, 10 lim feet is 0, where a
     - 1mf(1)-1mg(1) =0 =>
                                       can be too
     - 11mf(1) - 11m g(1) = ±00 = 11m g(1) 15 ±00
L'Hôpita's Rule
   t and a dillesonhable
                                              =D lim f(x) = lim f'(x)
                                                                                broniged the FHQ pimit
   g'(1) nonzero in some neghborhood at a,
                                                                                 evist (as a honle lea
   excell bornof a itsalf
                                                                                 number) of is too.
   pm f(t) = 0 = pm g(t)
ex: 11m 1+co1(11x)
             1-110 0
 - (1-x+nx) and (-treasux) balledith.
                                                        90
-0 d((1): - AZIU(UX) MUCH! NOUSED
                                                    1 - x-1 -> 1
                                                    8. AKINGUR) - AZINGAK) + AKCOS (AA).A
    1-X to been bedragn ni
                                                       bah dilt., Im t: Im 5:0
o ling : limb : 0
                                                           1 5'(1) = 112 (-1) +0 , clos + in neighborhood
\Rightarrow b = \lim_{x \to 1} \frac{-u \sin(u x)}{-u \sin(u x)} = \lim_{x \to 1} \frac{-u \sin(u x)}{-u \cos(u x)}
                                               kol textio (tex)
                                               · I'm 45 X CO)(12X) = - 425
Note
 Because the 15st limit exists, it means the list limit exists and is easily to the result of the 16st
 limit.
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