



If (1) is the, then (2) follows. So if we make  $|x-z| < \frac{2}{28}$ we will  $|x-z| < \frac{2}{|x^2|^{1/2}}$ So now let  $S = min(2, \frac{2}{28})$ then I |n-2| < 8) then [n-2] 22 AND |n-2| 2 E  $=) |x-2| < \frac{\varepsilon}{|x+n+4|}$  $= \frac{1(n^3-1)}{16n} - \frac{7}{2} = \frac{2}{2}$ Which in the definition  $\frac{3}{2} = \frac{3}{2}$ .

To prove a limit statement is

not fore you slow the def'in false. 7 (72>0 38>0 /n-0/28 =>L -)Lf(X)-L/CE = 3 200 H 800 /2-c/<8

AND /f(2)-L/>E

counter example 12n+5-13/22 | 2n -8 | < E 2/11-4/28  $(u-4)<\frac{2}{2}$ 

So just net  $8 = \frac{2}{2}$ .

So if |n-4| <8 then 1(2n+5) - 13 | <2