





 $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$   $|(x,y)-(0,0)|=|x+y|< S ((hoose S=\frac{\epsilon}{3})| \text{ Lef } A \text{ fn fixy}) \text{ is called continuous}$ 3/XFB CE fox) (a,b) (x-a)+11+(xn-an) >) Recall f(x)=10nti, at a if amf(x)=f(a) f(x) at every (x,y) = D if f=conti, at every (x,y) = D (Ex) polynomial firs = conti, (x) f(x) = 3x & for (x, y) = (0.0) A rational firs. PKV) = conti.

Z. 281x.y except 864) = 0/Eg f(x)=(Sinx x+0) (EX)  $f(x,y) = \frac{\chi_{EY}}{\chi_{EY}}$ 0 (Xix) > (0,0) DNE (Xix) > (0,0) f(x,y)=contingf(x,y)+(0,0) f(x,y)=contingf(x,y)+(0,0) f(x,y)=contingf(x,y)+(0,0) f(x,y)=contingf(x,y)+(0,0) $\Rightarrow f(x,y) = (onting)$ 

Def A fin f(x,y,z) hax a limit ( as (x,y,z))  $\rightarrow (a,b,c)$ (x,y,z)  $\rightarrow (a,b,c)$ (x,y,z)  $\rightarrow (a,b,c)$ E, OKS PANA VOT (=) if (x,y, 2) < Domain of f and 11< (x-a) +18-6-6<8 Hen | f(x, y, z) - L/CE 1 x-à/CE

Def. The fn fix continuous at a if  $\lim_{x\to a} f(x) = f(a)$ .

f(32,60)=f(30,60) 8/4.3 Partia envatives. f(30,60)=f(28,60) (30) - (20)1f(30,H)=(H) a(30) = = (0+(2)) = 1.75 30 T=temperature, H=Humidity

I=f(TiH) humidex G(30) = hm G(30+h)-g(30) - f(30+h 60)-f(30,60)H=0

h=0

h=0

h=0 At 17.H=(30,60) TA1'C => I / 1.75°C

