martedì 22 dicembre 2020 15:11 Y CXIYSER?: (Cx17)-> (O10) prehe Norrei che  $0 \le \frac{x^2 y^2}{\sqrt{(x^2 y^2)^3}} = \frac{x^2}{\sqrt{x^2 + y^2}} \sqrt{x^2 + y^2} \sqrt{y^2 + y^2}$ 191 = Ty2 < Tx272 A (xi2) = (0.0)

STUDIAMO LA DIFF. lu (0,0) Coleoliens (o, 0) (0,0)

Se (xiy) \$ (0,0)

se (5,7) = (0,0)

f (x2445)3

I lim

Vedienne se estée fx (0,0)?

 $\left[ D + C \times, o \right]_{x=0}$ YXER >> JEPPERIOD = 0 fcx10)=0

Aualogem.

Sy (0,0)=0 4 + (0,0) = 0B180 gna redere se!

J lim f(h,k)-f(0,0)-Jf(0,0)

= 8.

(hk)->(o,o) 1 22+ K2 1 - cos ( Luk) V (h2+K2)3 lim V 22++2 (h.k) ->(0,0) = lim ( &, k)-) (0,0)

(عارك الح) E= { ( &, E): K= mh, h = 0 } Em = { &, k):

 $\frac{1-\cos(m^{2})}{\left[(1+m^{2})h^{2}\right]^{2}} = \frac{1-\cos(m^{2}h^{2})}{(1+m^{2})^{2}m^{2}h^{4}}$