cálula 2, stemant vol. 2, ed 8, cap 14.2	57
5 lim $(x^2y^3 - 4y^2) = 3^2 \cdot 2^3 - 4 \cdot 2^2 = 5$	56
(x,y) -> (3,2)	
7 lim y. am (x-y) = 1/2° sen (1/2) = 1/2 (x,y) + (1, 1/2)	
9 para x=0	
$\lim_{(0, y^{+}) \to (0, 0)} x^{2} + 2y^{2} + \lim_{(0, y^{+}) \to (0, 0)} -4y^{2} = -4 = -2$	
(0, 8, 1-10, 0) x + 2 y = y - 10 2 y = 2	
lim -> lim -tyx = -2 !	1 1-
(0,7)-x(0,0) y >0 282	* p
para y=0	
ν	1:m x2 = 0
$\lim_{(x^{+},0)\to(0,0)} \frac{x^{+}-4x^{2}}{x^{2}} = \lim_{x^{+}\to0} \frac{x^{+}}{x^{2}} = \lim_{x^{+}\to0} \frac{x^{2}}{x^{+}\to0}$	X-40
vão existe	
44 lim y2 2007 X	
(x,y) -> (0,0) x2+2y2	
V	1
lim - 12 2000 - 1 lins 0 = 0 = lim	
(0, y) -6,01 2y2 yt-,0 2y2 y-,0) /2y2
para y=0	* Y *
$\lim_{(x,0)\to(0,0)} \frac{\cos^2 x^{\circ}}{x^2} \to \lim_{x\to0} 0 = 0$	
43 $\lim_{(x,y)\to(0,0)} xy$ $\begin{cases} x = r \cos \theta \\ y = r \cos \theta \end{cases}$	
· ·	
lim rose o room o = lim pt = coro. sen o	= Lmr. co2 & son 0 = 0
r-0 \(\sigma^2 \omega + \sigma^2 \omega + \sigma	_ _
$=$ $\overset{\sim}{1}$	

15 lim xy2 cary	
15 lim xy2 co2 y (xy) -> (0,0) x2+y4	vão sinte
pona x=0 lim 0 y+0 y+	= 0
y-x0 y+	
pana x=y2 lim y2	19 + 19 4 400 29 = co20 = 1 19++19+ 400 29 2 2 2
(y ² , y)->(0,0)	y++y4 400 2/2 2 2
17 lim x2+y2 (x,y) > (0,0) ((x2+y2+1)-1	$\int x = r \cos \theta$
- 1 lim r2 cos2 0 + r2 son2	$R = \lim_{n \to \infty} r^2 \cdot (n + n^2\theta + n + n^2\theta)^2$
1-0 /200 + 12 vovs 8+1	-1 V-0 (r2. (20n2 Q+1022 D) +1-1
-1- L.H. 1	2 r - 1: 2 r
r->0 Tr2+1-1 r-	>0 1 0 pr r >0 r 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
= lim 2+ . 12+1 = 2	
K-10 K	
29 F(x,y) = xy	1+ex-4 \$0 ex-4 numer sona = -1
1+6 x-4	ex-y = -1 pais ex-y ye
é continua en todo	aininal
31 F(x,y) = 1+x2+42	1-x2-y270
1-x2-y2	$1 \neq x^2 + y^2$
33 G(x,y) = 1x + 11-x2-4	1-x2-y27,0
x70 e x2+y2 <1	17/x2+y2
35 ((x,y,e) = ares (x2.	v
x2+ y2+ y2 <1	· v