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$$\frac{1}{x + y} = \frac{1}{y} =$$

= 8 3. VSMX O Xno Ky sinx 12. 12'ng - lom 1 -1 1 × 50° V 3 mx 3 -> 1 15 lim sin 11-x = -1] x > 0+ VI-xx' = sin 1 = sin 1] - lun s.n.VI-x' 1 VI-x -0 VI-x' VI+x 16 from ex= e0 = 1) 17 lim ex-1 = 15 18 lim lix = ln 1=01 (not: - 20 19 lim (ex-lux) = e2-lu2) lus = y 20/ from - (= = = 0)

Wholever (stant) Asymptote 31+6 . x-2)3x2-1 J = 3x2-1 3x2+6x 6x-12 J = 3x+6 + 11 - 3x+6 $(uy) \frac{(x-2)^{2}}{x^{2}-d} = 0$ = lim (x-2) = (x+2) = lim x-2 um x-2 = 0 = Lum X-2 x32 (x-2)(x+2) = lim 1 = 4) Lim x-3 == -1 x > 3 - x - 3 - 3 - 5 = 00] (om x-3 = = = = = = 1 + lone ~

. . S Continuity Defo.
1. f(c) is defined 2. lim fas 3 3 - lim frx) = f(c) fas = 14 = x2 is continuous? r(x) is continuous on [-2, -2] vi) -2≤x≤2 ex faj= & iscontinuous? Ja, is continuous everywhere except x =0 D: XE R-to3 --{0+x|x4 Ex fcs= 1 is cont.? f(x) is continuous everywhere except x = -1, -1 Intermediate value Theorem. f(a) and f(b) anethe same sign?

1 (x) 5 x x x 1 flu= 1-1-1=-/3 flu= 8-2-1=53 I at least it tero 11 14. from x = 15x+1=0 [-4,4] x fix selections are; letreen -4 -1 (-4;3) (0,1) (3,4) 7] 16 Frence Dela of a Lumit

Lim fex) = L

number 8 20 such that for all x

Defor orthant lunfusch | X-X0/ - 8 => |fas-L/ - E b' €>0, 5 8>0 3 8x -8<x-r0 < 8 -E < fan-L < E

tim (5x-3)=2 x0=1, f(x1=5x-1, L=2 U-/X-1/ = 5 -> /f (x) -2) < E - S < X -1 T S | 5x-3-2 | < E |5x-5| < E 5 /x-1/< E 1 X-11 5 E S = = = Ex + a) = VX-1 X0 = 5, L = 2, &= 1 Find 8? -5< X-5 < 8 5-8<1<8+5/6 1fa)_L/<& (Vx-1 -2/<1 -1 < VX-1 - 2 < +1 (< VX-1 < 3 1 < x-1 < 9 2 < X < 10) 3)5-5=2 - 18=3 5+8=10 - 18=5 102 3

•

HU fabx41 L=5 X0=4 E=.01 -8-X-4 5 S U-8<X< 4-8 1 Fai- 2/28 - { < x+1-5 < E - 01< X-4 < 01 4-100 < X < 4+100 4-101 < X < 4+101 3.99 <x < 4.011 100 CX < 40/ 14-8=3.89=> 8=.01 14-8= 797 ([4+8=4.01 => 8=-01 4+8=401 - S = 0.01) $\frac{d}{dt} = \frac{1}{100} = \frac{1}{100}$ $\frac{d}{dt} = \frac{1}{100} = \frac{1}{100}$ $\frac{d}{dt} = \frac{1}{100} = \frac{1}{100}$