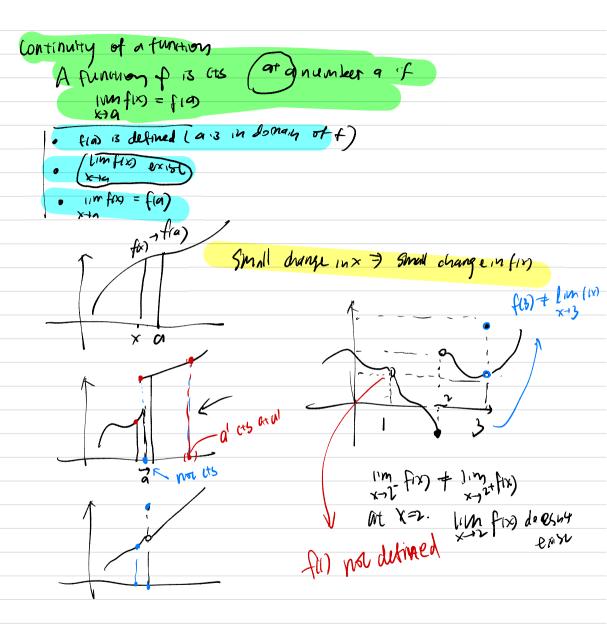


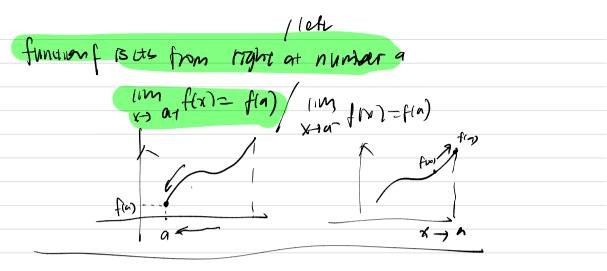
Sty) defined some view new 1  

$$Jx = forex^{2}$$
  
 $log_{x}x^{2} = low_{x}x = (low_{x}x = \sqrt{1})$   
 $x = 1$   
 $y = 1$ 



$$\frac{1}{(x-1)(x+1)} = \frac{1}{(x-1)(x+1)} \begin{bmatrix} 1 \ln (x-1)(x+1) & h \ln (x+1) = q+1 - f(x) \\ h \ln (x-1)(x+1) & h \ln (x+1) = q+1 - f(x) \end{bmatrix}$$

$$(x) \quad f(x) = \frac{1}{(x-1)} \begin{bmatrix} 1 \ln (f_{1}(x) - f_{1}(x)) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x-1) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x-1) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x-1) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x-1) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x-1) & h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) & h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x+1) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) + h \ln (x) \\ h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln (x) \\ h \ln (x) \\ h \ln (x) + h \ln (x) \\ h \ln$$



function 13 cts on A an internal if it is us at everypoint 14 Men on ta, bd Cts [-1,1]) (m fx)=f1-1) G -VI-X" WIS This its fire (m 1-11-x2=1-1-1  $-1 < \alpha < 1$  lim  $f(x) = \lim (1 - \sqrt{1 - x^2})$ x > [ = ( = fu)  $= \left| - \lim_{y \to -} \sqrt{1 - x^{y}} \right|$ X-Ju 7 -1 - Veim (1-XV) = 1- /1-a2 = f(a) fis at a if t ca<1 fear=1-1Far

 $\begin{pmatrix} \lim_{x \to a} f(x) = f(x), \lim_{x \to a} g(x) = g(x) \end{pmatrix}$ Theorem if f, g Cis at a cis a constant them following functions O ftg (ts at a. 8 f-9 5 £ if g(a) 70 cf

(tq) = (m f(x) + (m f(x)))X-JG = f(a) + g(a) :=)6) guts on interval I previous functions follows (Birtmansing on 7

por) polynomial (im pix) = p(-) direct substitution property P(X) 13 0+5 at a. polynomial ats everywhere, that is, cts on IR: (00, 00) QW= AN if a E PONQUE KIN = Q(a) QUE ats ara Q(X) is cts on Dom (Q(X))

Find  $\lim_{x \to -2} \frac{x^3 + 2x^2 - 1}{5 - 3x} = f(-2) = \frac{1}{11}$ previous method -2 in domain of two We can substitute x=-2 but fix is as on its domain hence cts on -2 by definition of its 2+ cost = 2+(-1) = 1 =

θIM <u>SINX = Sinπ</u> χ-π 2+606× 2+605π f(x)= Sinx lts at TU 91x7=2+ 605× 13 Cts MT =  $\frac{1}{2}$   $\frac{1}{2}$ f is its at Th