

5.  $S = \sqrt{t^2 + t + t}$  hym S'(2)  $S : (t^2 + t + t)^3$   $S' = (2t + 1) \cdot 3 \cdot (t^2 + t + 2)^3$ 5'(2) = d. d+1
3 (2+2+2) = 3 (4+4)2  $\frac{5}{3\sqrt[3]{8}} = \frac{5}{3 \cdot 2} = \frac{5}{12}$ 4. 9 = (+9 3x) sin 6x y' = ((e'n(+g(3x))) sincx) g'= (elm(tf(3x))sin 6x) hyer for lot f (3x) sin 6x 3'(2) - y' = ln (ln (+y (3x))sines)

e3. y = th (+g(3+)) sin 6+ es. (+gs+ See (5+)2. 5 sin (G+) + th (+g (3+) cos 6+ 6) ( to fig (3x)) smeat . ( to sx - sec (3x) 2 - 38 in (6x) -..) 6+an (3+) singt + 6 ln (+1 (3+) + 1 (5+) Singt certi Omlani y = 6+g(3+) since +6(n (+g(sx))+g(sx).cg 5. lim (ex+1) = x \$0. Cyny efucis. hpegens, Mun x>0+ex>0; 5ex+1; x<0; lim (ex+1)=0 1; H21=-10= =-6-0