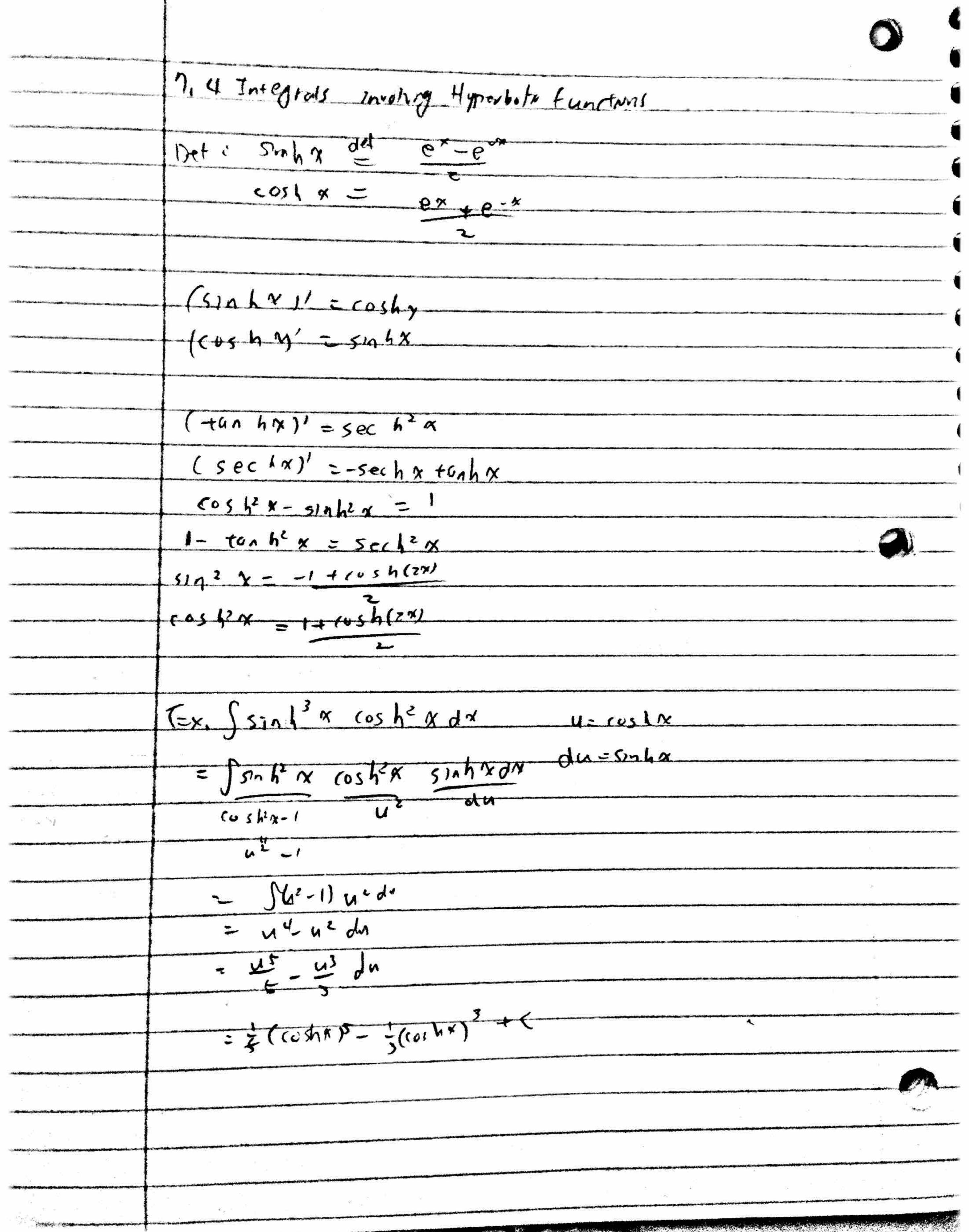
Professor Um SILI-Eason Math 20B 7/12/2017 Lecture 6 Exam Monday 7.2 7.4.7.5 Ssin3 x dx U = (05 % du = - snxdx = - (1-cus2x) do Trig LD 1. 51n2 N 1 1052 N E1 = 43 \_ u + C 2. I ttora = seta 3. Shirk = 1-1052x 4. los #= 1+ cos 2~ Ex Sinz n cos2x dx = 1 5172(1-SIA2X) dx = 9 57n2 x - 514x dx J-505024 - 1-50502 12 2-110(21) - 1-2005 >>+(05/(27) 1=+1+2 (05(2x) - 1 0052 (2x) dx

(tow/x)= Sec2 ~ (scc/x)= sec2 ~ 15cc/x)= sec2 ~ 1-1 1+ cos(40x) dx 5m4X+( tan x dx = SIN x dx W 2003 = H du=-siny ly = - In/u/+( Interx+c Yn cos n-51712 マラスニシャレグ FEX. SCCXdx U=Secx++47x du= (Sec xtont + socen) do Sec X. tan X. tsect x Jec x + un x = In | ser x + tonx + C - lu 1 ex + x + 1 + 1

u = + 41 7 du = secz n dx tania. sezx sezx sezvax = Ston2 a (1++6n2 x) dy = \ +Gn2 x + +Gn4x 1 du - Purtuu du (ii) from x. sec3x dx A=26° X = Stan x. Sec x . Sec x ton x dx du = sec x . + an x dx J(sec2 x-1) sec2x ds = JSu2-1) we du-Ex PHUNE K. SOCK OX = "[ [sec 2 x-1) (sec y) dx france as y unter 1 - Jec3 x -secx dx = fsec3xdx-Ssecydx u = seex du = seex = J sec x · sec y dr Secxtanx -J tonx secx dx



7.5 The method of partial tractions.	
Rational Function = ( puly ) dx	
Exi Da da	
V (x+1)(2x+1)	7 . I .
$\int_{\alpha}^{1} dx =$	Jula 1 + C
$= \frac{B}{A} + \frac{B}{A}$	- Sudar Sulx+ at + C
2×11	Ju au mining
2 = A(2x+1) + B(x+1) same turn	tin for any x
X=-1, 2 = -A -> A = -2	
7=-1/2 2= 1/B -> B=4	J-x dr = 1, 121+(
	u = xtq
7 2	Jana tra = 1 du duis dos
(x11)(2011) dx = 1 2 1/4 1 dx	J
	1-1-2-1-2-1-E
= - ) \\ \frac{1}{\pi_1}  \day +2 \frac{1}{\pi_1}  \day \\	
リケー	
=-2 ln  x+1   + 2 ln  x+4   1 (	

AND THE RESIDENCE AND ADDRESS OF THE PERSON ADDRES