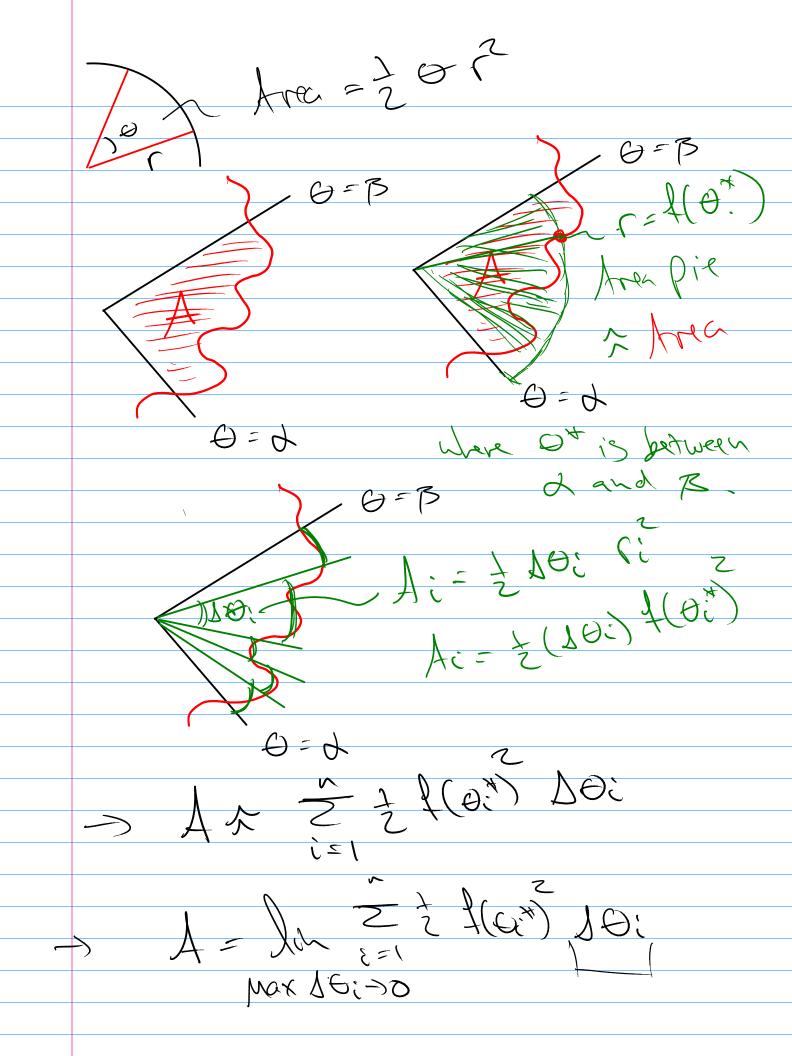
Math 243 ) 3/ Franco Ch8 #12  $f(x) = \frac{\ln(2 x)}{2x}, a = 1$ Tr(x) = f(a) + f(a) (x-a) + f(a) (x-a) + + f(a) (x-a) + + f(a) (x-a) +  $f'(x) = \frac{2 - 2 \ln(2x)}{4x^2}$ 2( ½) = Z 1 = a ShO + b coso (ab + 6 Josed like a circle. (1 = a(1 shp) + b(1 corp) (1 = 0) X+52 = 07 + 6 X X-bx+(2)+y2-ax+(2)=0+(2)+(2)  $(x-9/2)+(y-9/2)=\frac{5^2+a^2}{4}$ 

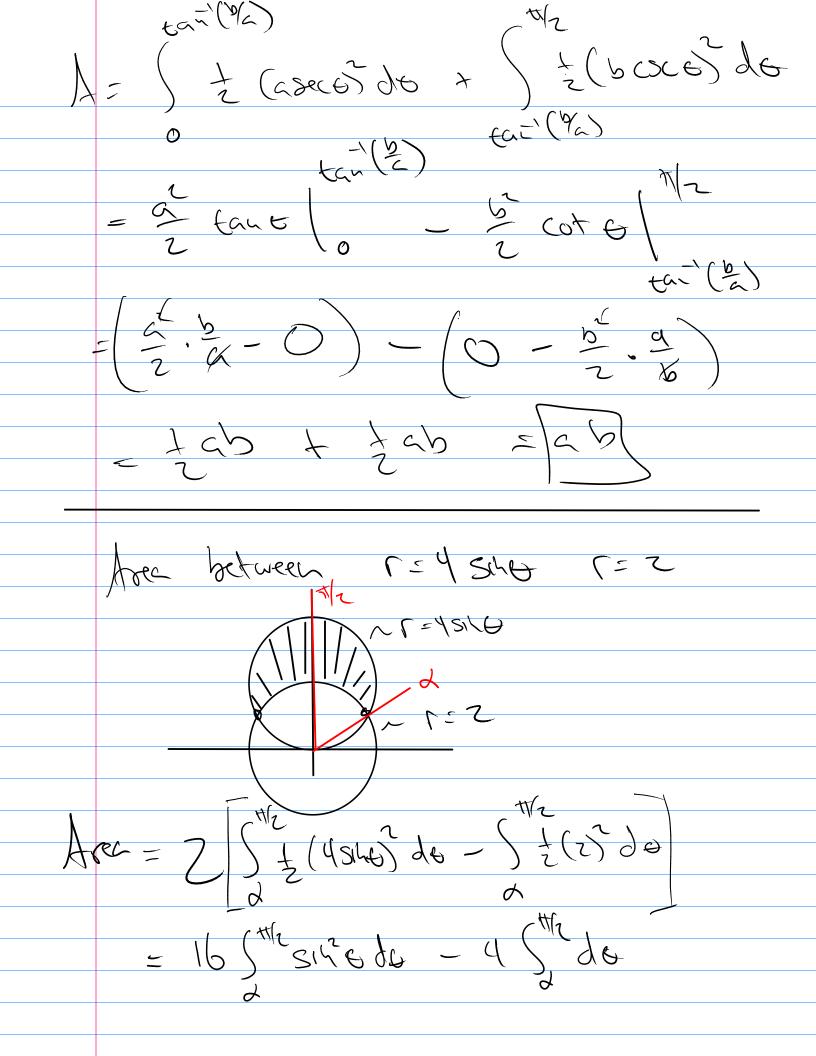
 $(x - 9(z)^{2} + (y - 9(z)^{2}) = \frac{5^{2} + \alpha^{2}}{4}$ Center (5/2, 9/2) harz. f = a She + b cose (ab f 6)New. f = a She + b cose (ab f 6)New. f = a She + b cose (ab f 6)New. f = a She + b cose (ab f 6)dy = de[8(0)] de [1.5h6]

dx = de[x(0)] de [1.600] do [ashor + bous). sile] = 2 [(ashe+ b(we), (we)] = (acose -bshe) she + (ashe+bcose) cose (2006-10 SNG) (OB \_ (2516+15 (OG) SHO = (22(00916) - 105/20 + 100020 - 26 cose sher + a cost - a shift = a Sh 26 + b cos 20 -b sh 20 + a cos 20

-65420 + acos 20=0 Vert, Tangent: h sih 20 = ch cos 20 tanzo= 96 norz. Tayent: a silve + 5 cosze =0 tan 20 = - 10 Angles that form Jerl. tangents on 0=B/0=M 0=2



( or question A= 5 2 4(0) do f 1= f(0) (13/2/0 use Hig sho to = 200 = 10



notis 26 7 = 451ho F= 2 1=16 ( the sire de - 4 ( the de = 5 hoh 46) (050) 8= (6) SILO) = SS (dx) + (dx) de 1x = \$(6) (050 - \$(6) 51hb

2x = \$(6) (050 - \$(6) 51hb

2x = \$(6) 51hb + \$(6) 51h6

2x = \$(6) 51hb + \$(6) 51h6

2x = \$(6) 51hb + \$(6) 51hb

2x = \$(6) 51hb

2x

