To find the eguation of a Circle of the Slope of the Circle is known The area bounded by a curve with the x or y can be obtained by 1 Area erelosed by the asve 42 from the x-anix-and the orderatis at a: a and as b is foyda or f fardn 2. Area eaclosed by The circle refly: The y-ams and the absenseal at

yea, yeb is by dy or Jef (4) dy. & Find the area bounded by the Care 25 97-24, the y-ans. and The absorbsal at you and you A2 Sady

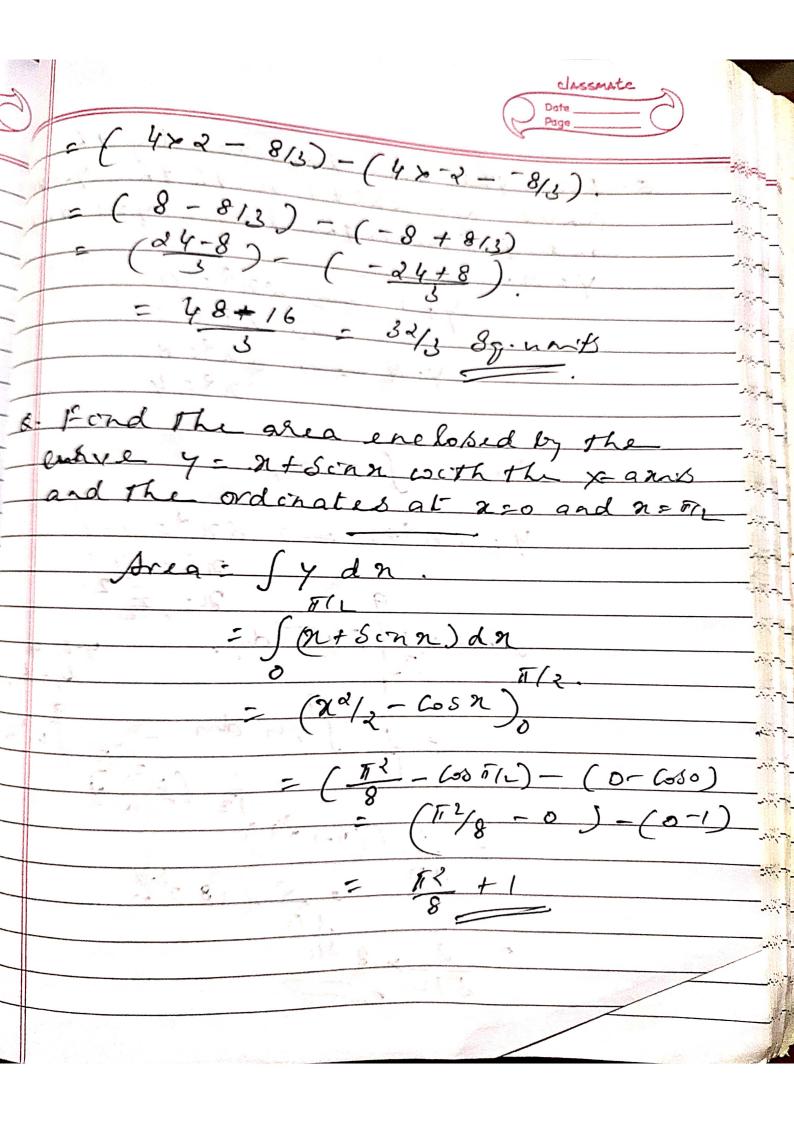
2 Jay dy

2 Jy 2-2 y dy 2 Syldy - 2 Sydy  $= \frac{1}{3} - \frac{1}{2} = \frac{1}{2}$   $= \frac{3}{3} - \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$   $= \frac{3}{3} - \frac{1}{2} = \frac{1}{2}$  $\frac{12(8-13)}{3} - \left(\frac{1-3}{3}\right)$ = -4 = = 3 -4 +1

Az 2/3 Sgrunds. yeard the area bounded by the Curve The equation 15 the x-ams y airneo. 2(901)20 220,24120. 0 8 20, 9 = = 1 Dreaz Jydn Not a made of (net n) din. Jaran + Inda - (nd/3 + 912/1)-1  $\frac{(-4)}{6} = \frac{(-4)}{6} + \frac{1}{2}$ A = 16 /6 /00 com of 1, 40 Hall ) 4.

& Find the area encluded between one arch of the curve y= Scinza Ana - Jydn ... = Sonndn Find the area bounded by The Curve n: 4-92 about the Y-and The Egnation of Y-amisis

2 - 0. 1-42-0-1-242 - 4= +2 Aria - S (4-72) dy (47- yol) 2.



a. Ford the area bounded by the Chave y: 222+1 with the y-arry and between the limits you and YS1 => 222 0 Y=9 => 222=8 2254 ind her also proboted for the Area = In dy. and the sudenotes of a 4 - 2 n 2+1 = 2 2n 2 - 1 Area = 1  $\sqrt{y-1}$  dy  $= \frac{1}{\sqrt{y-1}}$   $= \frac{1}{\sqrt{y-1}}$  2 3/2 ( 4-1 ) 2 2 3 8 31L 2 3 N