PAPAI MONDAL

Date DELTA Pg No.

Maths Assignment 1

(4,4)

ny= 16

D= (4,4)

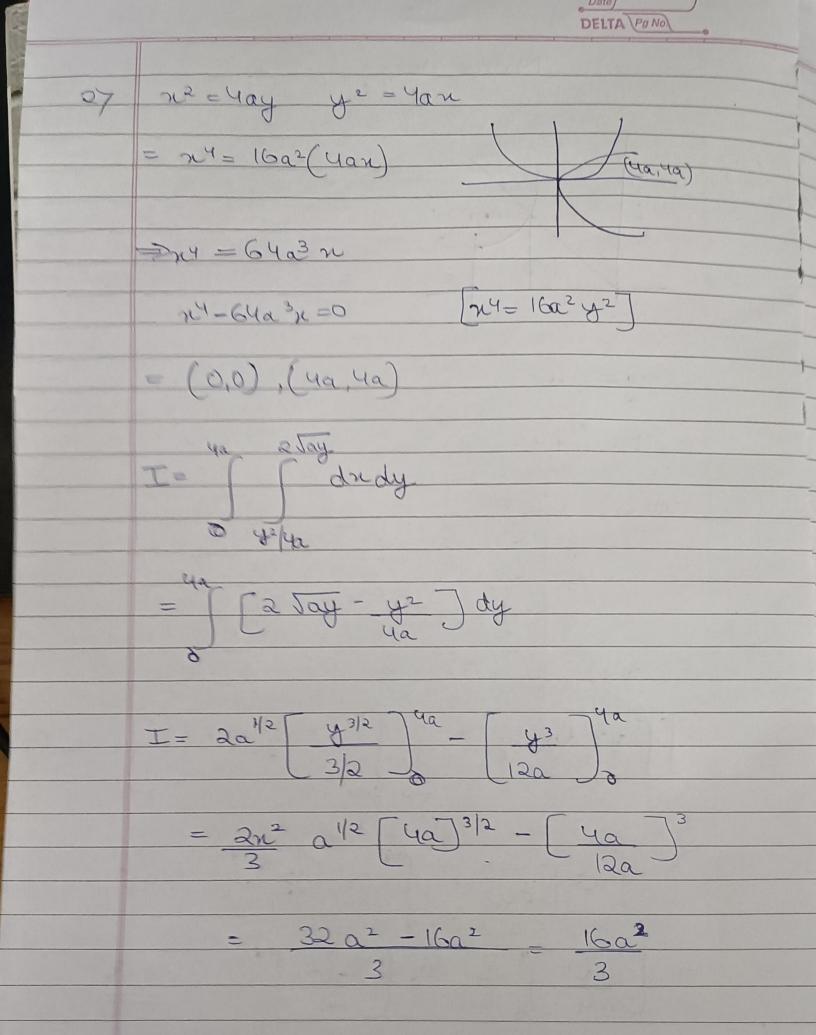
When n= 8

ry=16 8y=16

9=3

P(8,2)

= [ 24] 4 + 16 [ 22] = 448

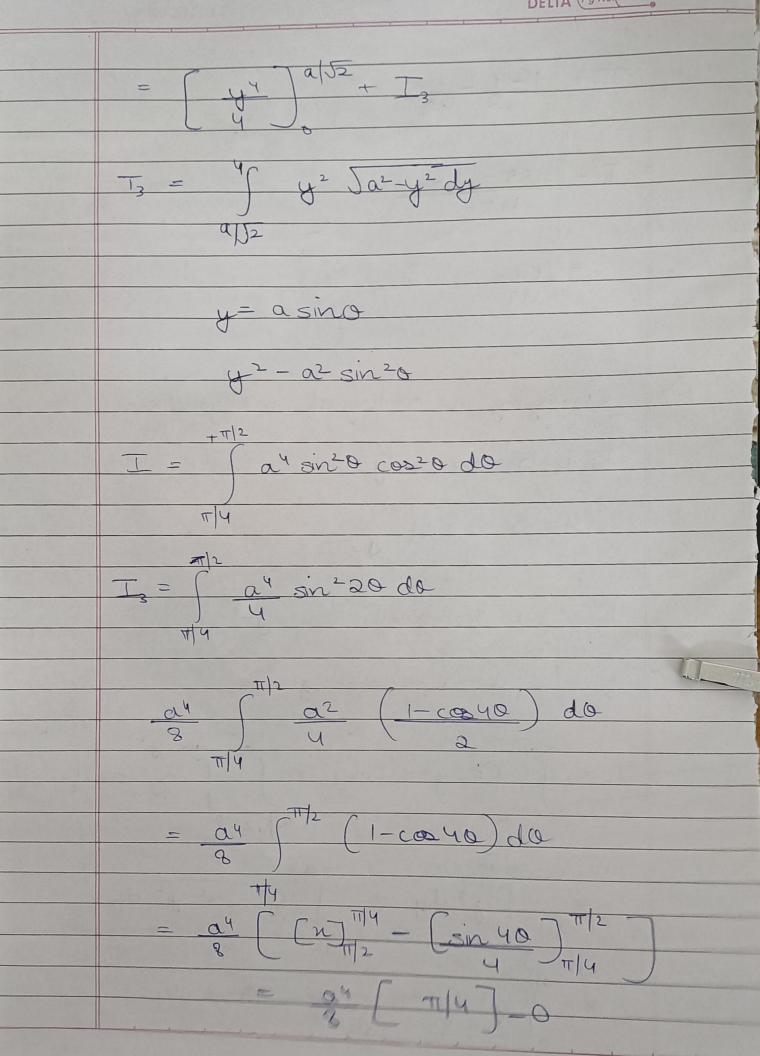


Delta Pg No.

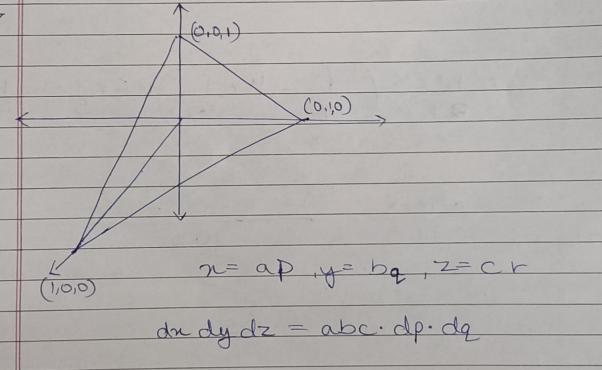
(3,0) I= (n2+y2) dxdy I = 3 ( n3) 3-y dy m+ y2 (n) 3 dy dy = 2 ( (13-y)3) - (y) - (y) - (y) (3-y- $= \int \left[ \frac{27 - 27y + 3y^2 - y^3}{3} - \frac{y^3}{192} \right] dy + \int \left( \frac{3y^2 - y^3 - y^3}{3} \right) dy$ = 2 \ \ 9 dy - 9y dy + 3y^2 dy - y^3 dy - y^3 + \ 3y^2 dy - y^3 dy = 18 - 18 + 8 - 16 - 16 + 8 - 16 - 16 12 768 4 16

= 8- 4 - 1 =

DELTA Pg No. = 463 Changing in order of integration -> y=a  $y=a \rightarrow y=a$ I = ft y²dndy + f y²dndy  $= \int y^3 dy + \int y^2 \sqrt{\alpha^2 - y^2}$ = of y3 dy + S y2 Ja2-y2 dy



$$\frac{3}{16} + \frac{3}{32}$$



$$= \int_{a}^{3} a^{3} b^{2} c^{2} \int_{a}^{1} p^{2} q \left(1 - p - q\right)^{2} dp dq$$

$$= \frac{1}{2} \frac{a^{3}b^{3}c^{3}}{600} \int_{0}^{1-p} \frac{1}{2} \frac{1}{2$$

$$= \frac{0.3 \, b^2 \, c^2}{24} \times \frac{15 - 70 + 126 - 105 + 35}{10.5}$$

$$= \frac{a^3b^2c^2}{24} \times \frac{1}{105}$$

$$= \frac{a^3 b^2 c^2}{2520}$$