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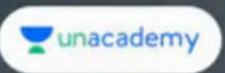
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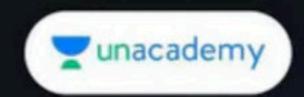


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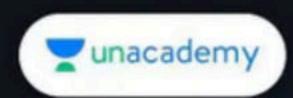
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Area and volume by double integral (7



100 noty

Area of the region D by double integral:

The area of the region D in the xy-plane is given by

$$A = \iint_{\Omega} dx \, dy = \iint_{\Omega} dA$$

$$A = 4 \int_{Y=0}^{\infty} dy$$

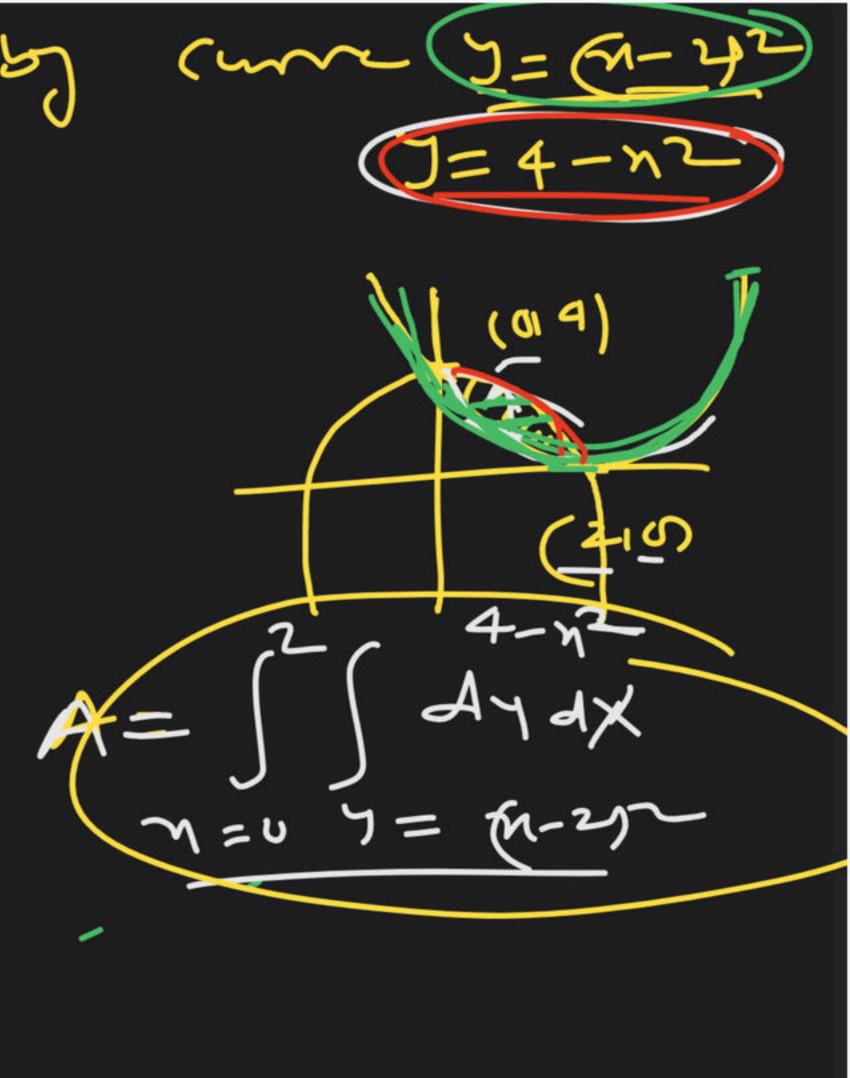
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A= Jandy A-4 TAYAD 0=0VEO = 4 / MO / ~ AV $=4(0)\pi(\frac{x}{i})$ = 4(PL) (2)= man

7/47=9 m=4(50 グニートタンの

Arcad reckny D= {(mm)|0≤n=1,0≤j=2| A =) [1 - 1 - 7 A-- Sanger = Sanger = Sanger = (4) ~ (7) = - (M), (J/2 = (2-4) (10)

o voca of early enclosed by A = \frac{4}{3ndy} 3=0 x= 55+2 A = (4 (54-y - 59-2) dy $A = \left[\frac{(4-5)^{3}}{34} - \frac{3^{2}}{34} - \frac{23}{34} \right]_{0}$ $A = \left(\left(0 - \frac{4^{3/2}}{3/2} - 8 \right) - \left(\frac{4^{3/2}}{3/2} \right) \right)$ F= - E)

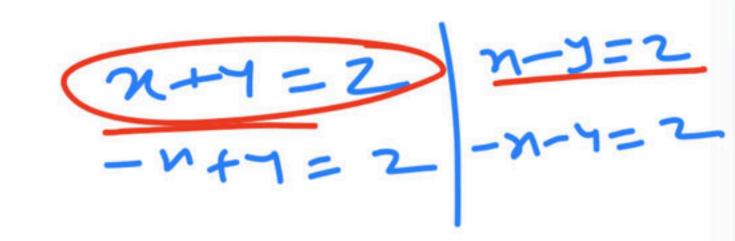




The area of the planer region bounded by the curve $x = 6y^2 - 2$ Q.1. and $x = 2y^2$.

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Q.2. The area of $\{(x,y) \in \mathbb{R}^2; |x| + |y| \le 2\}$ is HCU 2021

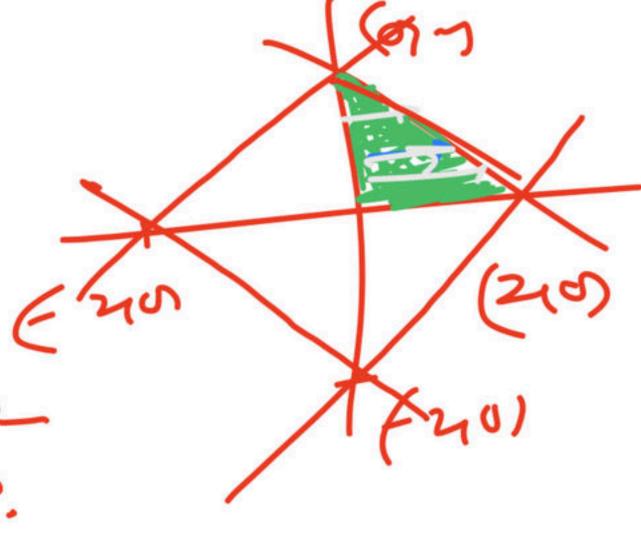


$$A = 4 \int dndy$$

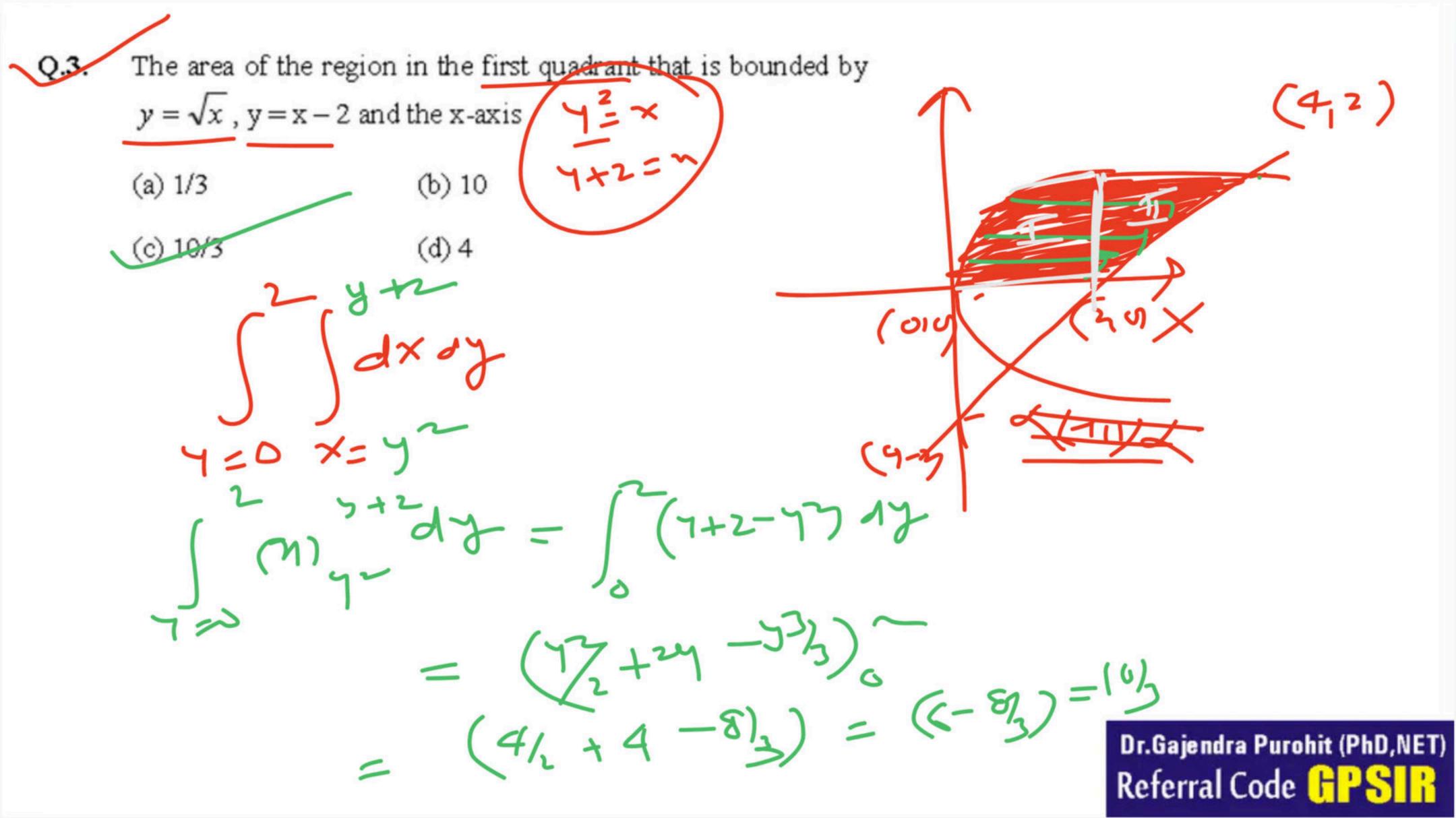
$$A = 4 \int dndy$$

$$4 = 0 \times = 0$$

$$A = 4 \int_{0}^{2} (4)_{6}^{2}$$



Area of the region bounded by y=n2 $\frac{7}{4} = \frac{1}{2}$ $\frac{-2}{4}$ $\frac{2}{4}$ $\frac{2}{4}$ 9 (010) $A = \int_{-2}^{2-\eta} \int_{-2}^{2-\eta} dy dx = \int_{-2}^{2-\eta} (y)^{2-\eta} dx$ $N = -2 \quad y = -2$ $= \int (2-\eta - \eta)^{3} d\eta = \left(2\eta - \eta^{3} - \eta^{3} \right) \left(1 - \eta - \eta^{3} - \eta^{3} \right) = \left(2\eta - \eta^{3} - \eta$



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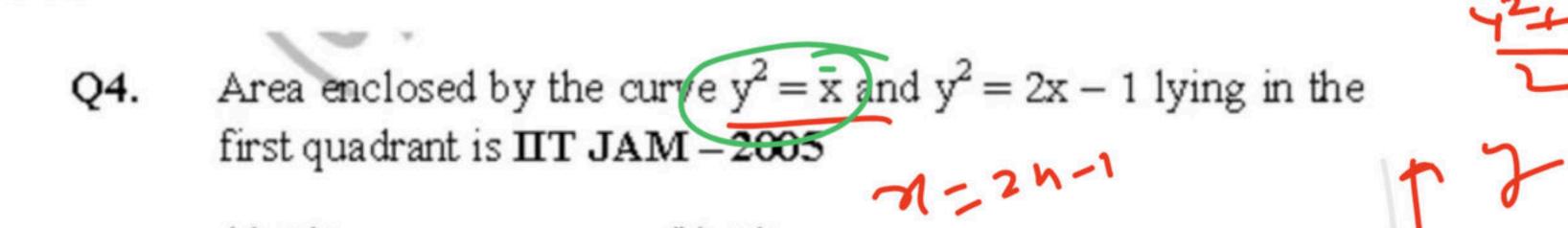
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(a) 1/6

(b) 1/4

(c) 1/2

Janan = ((21) 27)

二十八分十二十分十二十八十分

= 2(3)-3

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Q.5. Consider the open rectangle $G = \{(s,t) \in \mathbb{R}^2 : 0 < s < 1 \text{ and } 0 < t < 1\}$ and the map $T : G \rightarrow \mathbb{R}^2$ given by

$$T(s,t) = \left(\frac{\pi s(1-t)}{2}, \frac{\pi(1-s)}{2}\right)$$
 for $(s,t) \in G$ Then the area of

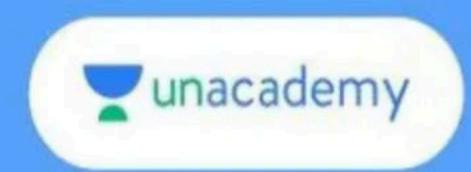
the image T(G) of the map T is equal to IIT JAM 2022

(a) $\pi/4$

(b) $\pi^2/4$

(c) $\pi^2/8$

(d) 1



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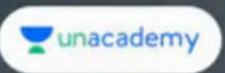
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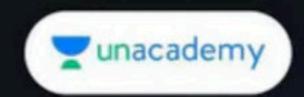


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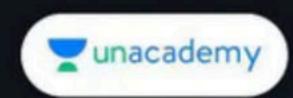
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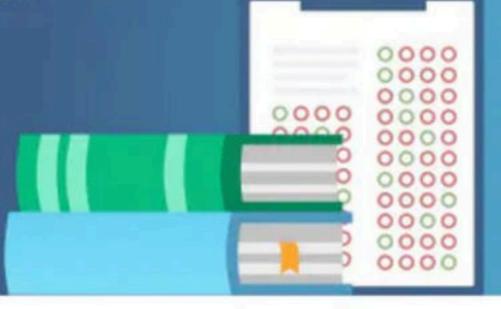
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