

السؤال الاول P

$$\frac{dP}{dt} = uP$$

$$P = \frac{dP}{dt} + \text{جانب ب}$$

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$$u = \frac{dP}{dt}$$

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$$\frac{1}{u} = \frac{dP}{dt}$$

$$dP = u dt$$

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$$\frac{1}{u} = P \leftarrow r = uP$$

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افترض $\sqrt{\epsilon + \sqrt{\epsilon}} = u$

$$\sqrt{\epsilon} = \frac{u}{\sqrt{\epsilon + \sqrt{\epsilon}}} = \frac{\epsilon + \sqrt{\epsilon}}{u}$$

$$\sqrt{\epsilon + \sqrt{\epsilon}} = u \implies \frac{u}{\sqrt{\epsilon + \sqrt{\epsilon}}} = \frac{u}{u} = 1$$

$$\frac{u}{\sqrt{\epsilon}} = \frac{u}{\sqrt{\epsilon + \sqrt{\epsilon}}} = 1 \implies \frac{u}{\sqrt{\epsilon}} = 1 \implies u = \sqrt{\epsilon}$$

$$\sqrt{\epsilon} = \frac{u}{\sqrt{\epsilon + \sqrt{\epsilon}}}$$

$$\frac{\epsilon - u^2}{\epsilon + u^2} = \frac{1 - u^2/\epsilon}{1 + u^2/\epsilon}$$

$$\frac{\epsilon - u^2}{\epsilon + u^2} = \frac{1 - \frac{u^2}{\epsilon}}{1 + \frac{u^2}{\epsilon}}$$

$$(\epsilon - u^2)u + (\epsilon + u^2)P = \frac{u}{\epsilon + u^2} + \frac{P}{\epsilon - u^2}$$

$$(\epsilon - u^2)u + (\epsilon + u^2)P = \epsilon$$

$$1 - \frac{u^2}{\epsilon} = \frac{1}{1 + \frac{u^2}{\epsilon}}$$

$$\frac{1}{1 + \frac{u^2}{\epsilon}} = \frac{1}{1 + \frac{u^2}{\epsilon}} = \frac{\epsilon}{\epsilon + u^2}$$

$$P + \frac{1}{\epsilon + u^2} = \frac{1}{\epsilon - u^2}$$

$$\frac{1}{\epsilon + u^2} = \frac{1}{\epsilon - u^2} - P$$

$$\frac{1}{\epsilon + u^2} = \frac{1}{\epsilon - u^2} - P$$

$$\frac{1}{\epsilon + u^2} = \frac{1}{\epsilon - u^2} - P$$

$$| (قاس) \frac{3k}{2} - قاس^2 |$$

لاحظ انه $\frac{3}{2} = p$ $\frac{2}{2} = n$

$$| (قاس) \frac{3k}{2} - قاس^2 - قاس^2 |$$

$$| (قاس) \frac{3k}{2} (1 + قاس) - قاس^2 |$$

$$قاس = قاس$$

$$\frac{قاس}{قاس} = قاس$$

$$\frac{قاس}{قاس} = قاس$$

$$| قاس \frac{3k}{2} (1 + قاس) - قاس^2 |$$

$$| قاس \frac{3k}{2} + قاس \frac{3k}{2} - قاس^2 |$$

$$\frac{3}{2} قاس + قاس \frac{3}{2} - قاس^2$$

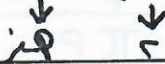
$$\frac{3}{2} (قاس) + قاس \frac{3}{2} - قاس^2$$

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السؤال الثاني (P)

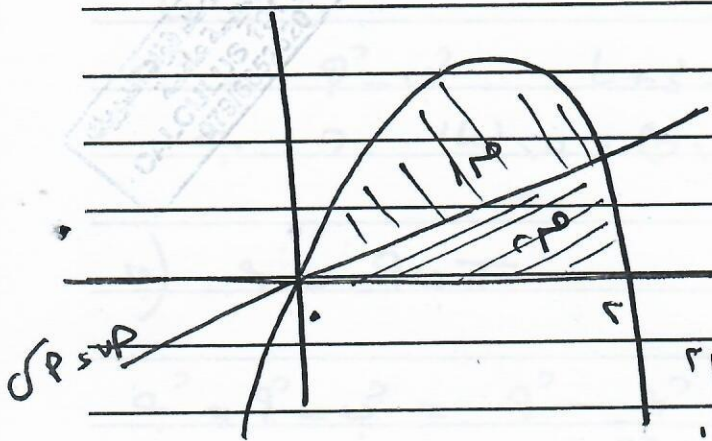
يوجد المساحة المحصورة بين $y = x^2$ وخط المماس عند $x = 2$

$$y = x^2 \quad y = 4x - 4$$



$$\int_0^2 (4x - 4 - x^2) dx$$

$$= \left(2x^2 - 4x - \frac{x^3}{3} \right) \Big|_0^2 = \left(8 - 8 - \frac{8}{3} \right) - \left(0 - 0 - 0 \right) = -\frac{8}{3}$$



جد الإحداثيين السيني لتقاط نفاط القطر مع المحور

$$\sqrt{P} = \sqrt{c} - \sqrt{r}$$

$$P - r = u \quad \dots \quad u = (r - P) + u \quad \dots \quad u = (r - P) + u$$

$$\sqrt{c} = \sqrt{(P-r)} \quad \dots \quad \sqrt{c} = \sqrt{P-r} = \sqrt{r} \quad \dots \quad \sqrt{c} = \sqrt{P-r}$$

$$\sqrt{c} = \sqrt{r} \left[\frac{1}{\sqrt{r}} - \frac{1}{\sqrt{P-r}} \right] = \frac{c}{r} - \frac{c}{P-r}$$

$$\frac{c}{r} = \dots \quad \frac{c}{r} = \frac{r(P-r)}{r} - \frac{c(P-r)}{r}$$

$$\sqrt{c} = P - r \quad \dots \quad \sqrt{c} = \frac{r(P-r)}{r} \quad \dots \quad \sqrt{c} = \frac{r(P-r)}{r}$$

(ب) (د)

(ب) (د)

(د) (ب)

السؤال الثالث

مركز القطع (1,1)

$$c + d = P$$

$$c = d$$

$$c = d = \frac{P}{2}$$

بعض النظر عن c و d

$$\frac{P}{\pi P} = \frac{1}{\pi}$$

$$\pi \cup P = M \quad (c)$$

$$\frac{c - \pi P}{\pi P} = \frac{c - P}{\pi P} = \frac{c - P}{\pi P} = \frac{c - P}{\pi P}$$

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$$u = 7 + \sqrt{u}$$

$$u = \sqrt{u} - \quad (D)$$

$$\sqrt{u} - = 7 + \sqrt{u}$$

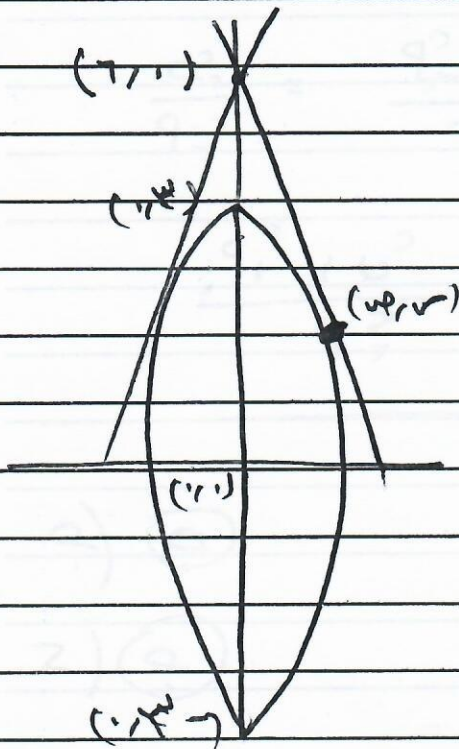
$$\cdot 5 7 + \sqrt{u} + \sqrt{u}$$

$$| (7 - \sqrt{u}) | (7 + \sqrt{u})$$

$$\begin{matrix} r = \sqrt{u} & r = \sqrt{u} \\ \text{في } L^- & \text{في } L^+ \end{matrix}$$

$$u > \quad \left. \begin{matrix} \sqrt{u} + 7 - \sqrt{u} \\ \sqrt{u} \end{matrix} \right\} + \left. \begin{matrix} u > 7 + \sqrt{u} - \sqrt{u} \\ \sqrt{u} \end{matrix} \right\}$$

(P) (5)
(C) (8)



المعادلة الرابع

$$27 = \sqrt{u} + \sqrt{9}$$

$$1 = \frac{\sqrt{u}}{9} + \frac{\sqrt{9}}{9}$$

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$$\frac{u-7}{\sqrt{u}} \leftarrow \frac{7-u}{\sqrt{u}} = u - \frac{1}{u}$$

$$1 = \frac{u \sqrt{u}}{9} + \frac{\sqrt{9}}{9}$$

$$\frac{\sqrt{9}}{9} = \frac{\sqrt{u} \sqrt{u}}{9} \quad \frac{\sqrt{9}}{9} = \frac{\sqrt{u} \sqrt{u}}{9}$$

$$\frac{\sqrt{A-}}{4\phi \epsilon} = \omega$$

$$\gamma_7 = \overset{c}{\phi} \epsilon + \overset{c}{\sqrt{A}}$$

$$\frac{\sqrt{A-}}{4\phi \epsilon} = \frac{\gamma - \omega}{\sqrt{}}$$

$$\overset{c}{\sqrt{A-}} = \gamma_7 - \overset{c}{\phi} \epsilon$$

$$\overset{c}{\sqrt{A-}} = \omega \phi \epsilon - \overset{c}{\phi} \epsilon$$

$$\gamma_7 - \overset{c}{\phi} \epsilon = \omega \phi \epsilon - \overset{c}{\phi} \epsilon$$

في كل باء رقم ٥٥

$$\frac{\gamma}{\phi} = \frac{A}{\phi} = \frac{\gamma_7}{\phi \epsilon} = \omega$$

B12

هذا هو الجواب
سأرى الطالبة

$$\frac{\overset{c}{\phi} \omega + \overset{c}{\phi} P}{\overset{c}{\phi} P} = \frac{\overset{c}{\phi} P}{\overset{c}{\phi} P} \quad (C)$$

$$\frac{\overset{c}{\phi} \omega - \overset{c}{\phi} P}{\overset{c}{\phi} P} = \frac{\overset{c}{\phi} P}{\overset{c}{\phi} P}$$

$$\gamma = \frac{\overset{c}{\phi} P \epsilon}{\overset{c}{\phi} P} = \frac{\overset{c}{\phi} \omega - \overset{c}{\phi} P}{\overset{c}{\phi} P} + \frac{\overset{c}{\phi} \omega + \overset{c}{\phi} P}{\overset{c}{\phi} P}$$

$$\textcircled{D} \quad \textcircled{P}$$

$$\textcircled{D} \quad \textcircled{S}$$

$$\textcircled{D} \quad \textcircled{D}$$