

NAMA:.....

TINGKATAN:.....

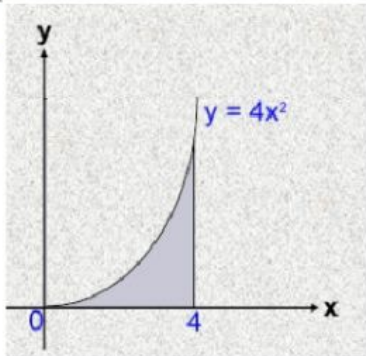
KAMIRAN TENTU : ISIPADU KISARAN

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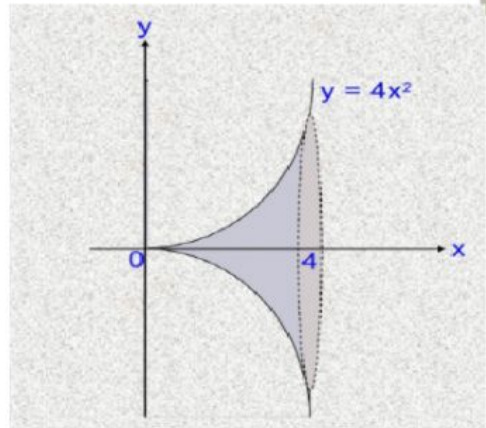


Mengira isipadu kisanan pada paksi-x sebagai

$$\int_a^b \pi y^2 dx$$



Hitungkan isipadu janaan apabila rantau berlorek itu dikisarkan melalui 360° pada paksi -x.

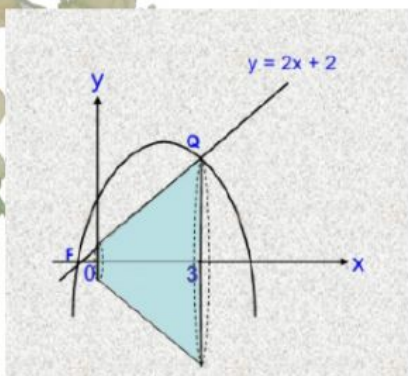


$$1. \int \pi \quad dx$$

$$= \pi \left[\frac{16x}{1} \right]$$

$$= \left[\frac{16}{1} \pi \right] - \left[\frac{16}{1} \pi \right]$$

$$= \boxed{\quad} - \boxed{\quad} \pi \text{unit}^3$$



Hitungkan isipadu janaan apabila rantau di bawah garis lurus dikisarkan melalui 360° pada paksi -x.

$$2. \quad \int \pi \, dx$$

$$= \int \pi (\quad) \, dx$$

$$= \pi \left[\frac{(\quad)}{\quad} \right]$$

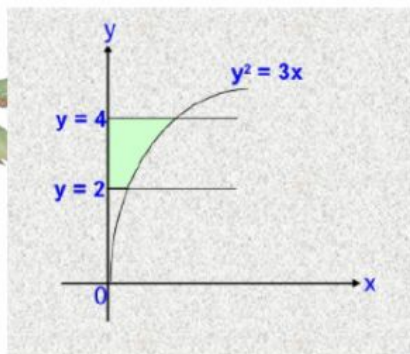
$$= \pi \left[\quad \right] - \left[\quad \right]$$

$$= \left[\quad \right] \pi \text{unit}^3$$

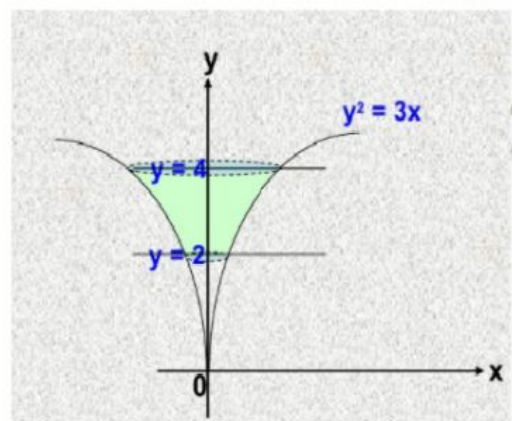


Mengira isipadu kisanan pada paksi-y sebagai

$$\int_a^b \pi x^2 dy$$



Hitungkan isipadu janaan apabila rantau berlorek itu dikisarkan melalui 360° pada paksi-y.



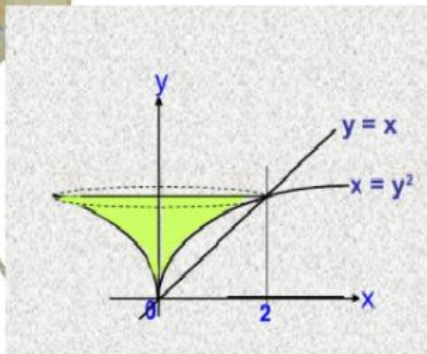
$$3. \int \pi \, dy$$

$$= \int \pi \, dy$$

$$= \pi \left[\frac{y^2}{2} \right]_2^4$$

$$= \pi \left[\frac{4^2}{2} \right] - \left[\frac{2^2}{2} \right]$$

$$= 22 - \pi \text{ unit}^3$$



Hitungkan isipadu janaan apabila rantau di bawah lengkung dikisarkan melalui 360° pada paksi-y.

$$4. \text{Isipadu} = \int \pi \, dy$$

$$= \pi \int \, dy$$

$$= \pi \left[\frac{\quad}{\quad} \right]_{\quad}^{\quad}$$

$$= \pi \left(\frac{\quad}{\quad} - \frac{\quad}{\quad} \right)$$

$$= \boxed{\quad} \pi \text{unit}^3$$