

n	0	1	2	3	4	5	6
y(n)	7	10	11	11,5	12	12	

$$\cancel{2\pi} \int_0^5 y \, dx \Rightarrow y_0 - y_4 \Rightarrow \text{Simson} + y_4 - y_5 \Rightarrow \text{trapesium}$$

$$\begin{aligned} \text{Simson} &= 2\pi \frac{h}{3} [y_0 + y_4 + 4(y_1 + y_3) + 2y_2] \\ &= 2\pi \frac{1}{3} [7 + 12 + 4(10 + 11,5) + 2(11)] \\ &= 254/3 \pi \end{aligned}$$

$$\begin{aligned} \text{Trapesium} &= 2\pi \frac{h}{2} [y_4 + y_5] \\ &= 2\pi \frac{1}{2} [12 + 12] \\ &= 24 \pi \end{aligned}$$

$$\text{Total} \Rightarrow (254/3 + 24) \pi = 108,6667 \pi$$

$$\text{Lp benda putar} = \underline{\underline{108,6667 \pi}}$$

$$\pi \int_0^5 y^2 \, dx \Rightarrow y_0^2 - y_4^2 \Rightarrow \text{simson} + y_4^2 - y_5^2 \Rightarrow \text{trapesium}$$

$$\begin{aligned} \text{Simson} &= \pi \frac{h}{3} [y_0^2 + y_4^2 + 4(y_1^2 + y_3^2) + 2y_2^2] \\ &= \pi \frac{1}{3} [7^2 + 12^2 + 4(10^2 + 11,5^2) + 2(11^2)] \\ &= 1368/3 \pi \end{aligned}$$

$$\begin{aligned} \text{Trapesium} &= \pi \frac{h}{2} [y_4^2 + y_5^2] \\ &= \pi \frac{1}{2} [12^2 + 12^2] \\ &= 144 \pi \end{aligned}$$

$$\text{Total} \Rightarrow (1368/3 + 144) \pi = 598,6667 \pi$$

$$\text{volum benda putar} = \underline{\underline{598,6667 \pi}}$$