

10. Nama: Rapi Johan

NPM = 4062100085

formula integral

$$V = \int_0^2 (6x)^2 - (3x^2)^2 dx$$

$$V = \pi \int_0^2 36x^2 - 9x^4 dx$$

$$V = \pi \left[12x^3 - \frac{9}{5} x^5 \right]_0^2$$

$$V = \pi \left[12(2)^3 - \frac{9}{5} (2)^5 \right]$$

$$V = \pi \left(96 - \frac{288}{5} \right)$$

$$V = \pi \left(\frac{480 - 288}{5} \right)$$

$$V = \pi \frac{192}{5} = \pi 38 \frac{2}{5}$$