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kalkulus Tugas 1

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

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

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

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

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

$V = \pi \dfrac{(480 - 288)}{5}$

$V = \pi \dfrac{192}{5} = \pi \, 38 \dfrac{2}{5}$