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Kalkulus Tugas 1

9. Titik Potong

$y = 3x^2$ $\quad y = 6x$ $\quad x = \frac{y}{6}$

$y = 3x^2$

$6 - 3x^2$

$3x^2 - 6x = 0$

$x = 0 \quad x = 2$

luar irisan

$\Delta A = (6x) - (3x^2) \mid \Delta x$

sehingga luar daerah

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

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

$L = \left(\frac{6}{2}x^2 - \frac{3}{3}x^3\right) \int_0^2$

$L = 3x^2 - x^3 \int_0^2$

$L = 3(2)^2 - (2)^3$

$L = 12 - 8$

$L = 4$ satuan luar