

9. ~~Titik potong antara garis dan parabola~~

$$3x^2 = 6x$$

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9. Titik potong

$$y = 3x^2$$

$$y = 6x$$

$$x = \frac{y}{6}$$

Luar inisan

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

Sehingga luar daerah

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

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

$$L = \left( \frac{6}{2} x^2 - \frac{3}{3} x^3 \right) \bigg|_0^2$$

$$L = 3x^2 - x^3 \bigg|_0^2$$

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

$$L = 12 - 8$$

$$L = 4 \text{ satuan luar}$$