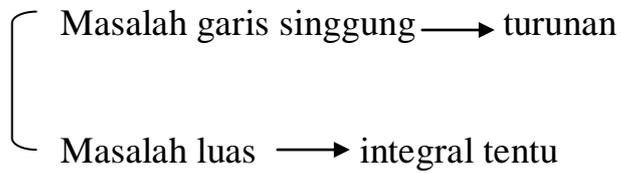
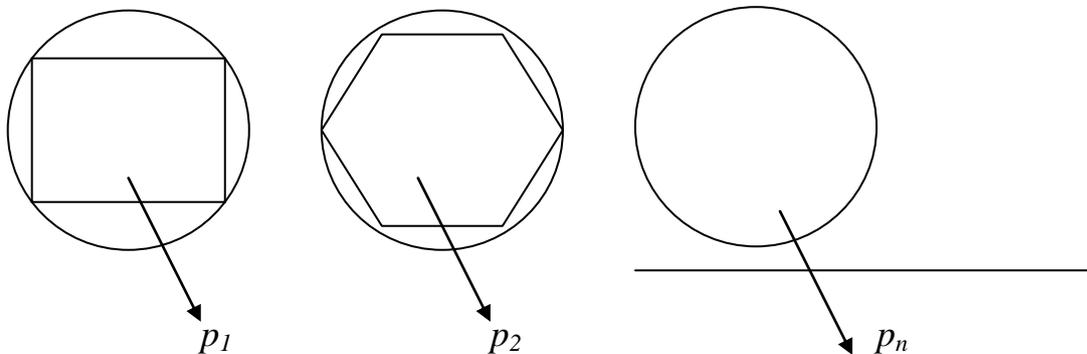


5.4. Pendahuluan Luas



Polygon = gambar tertutup di bidang yang dibatasi oleh ruas – ruas garis lurus.

Polygon dalam

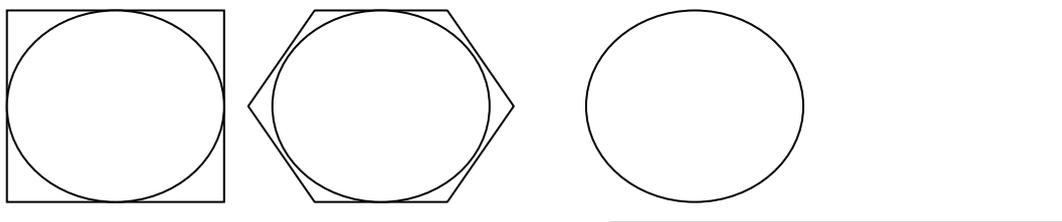


luas lingkaran adalah limit untuk $n \rightarrow \infty$ dari luas – luas P_n

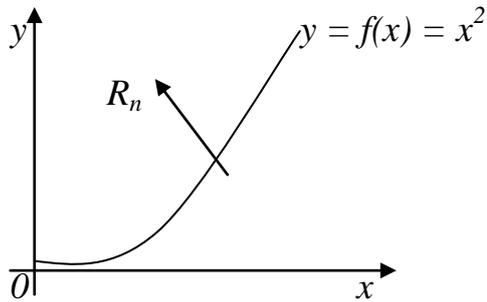
$L(F)$ = luas suatu daerah F

$$L(\text{lingkaran}) = \lim_{n \rightarrow \infty} L(P_n)$$

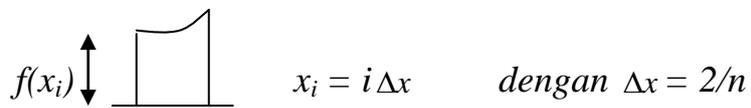
Polygon luar



Luas menurut polygon dalam



$x = 0$ dan $x = 2 \longrightarrow$ partisi selang $[0,2]$ menjadi n bagian



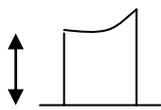
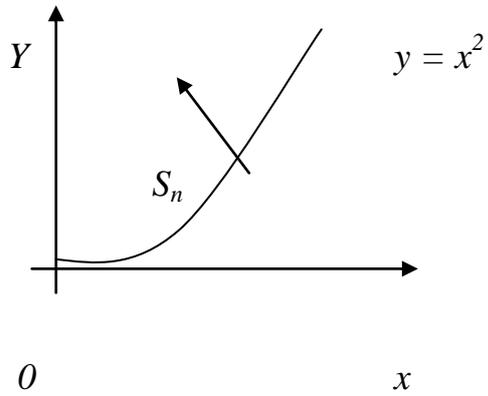
$$L(R_n) = f(x_0) \Delta x + f(x_1) \Delta x + \dots + f(x_{n-1}) \Delta x$$

$$f(x_i) \Delta x =$$

$$L(R_n) =$$

$$\text{Jadi } L = \lim_{n \rightarrow \infty}$$

Luas menurut polygon luar



$$L(S_n) = f(x_i) \Delta x + f(x_1) \Delta x + \dots + f(x_n) \Delta x$$

$$L(S_n) =$$

$$\text{Jadi } L = \lim_{n \rightarrow \infty}$$

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