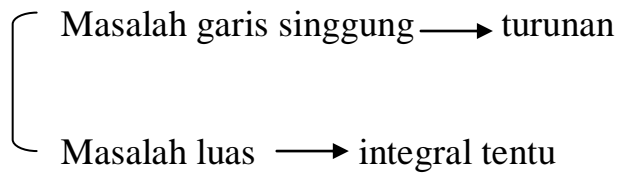
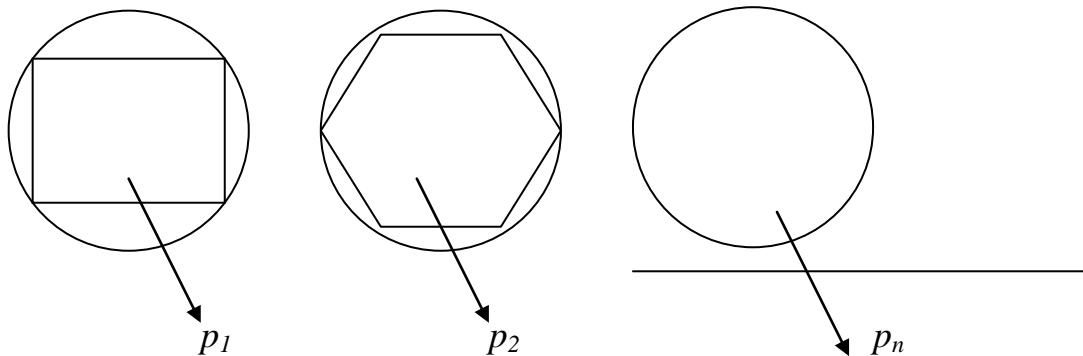


## 5.4. Pendahuluan Luas



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

### *Polygon dalam*

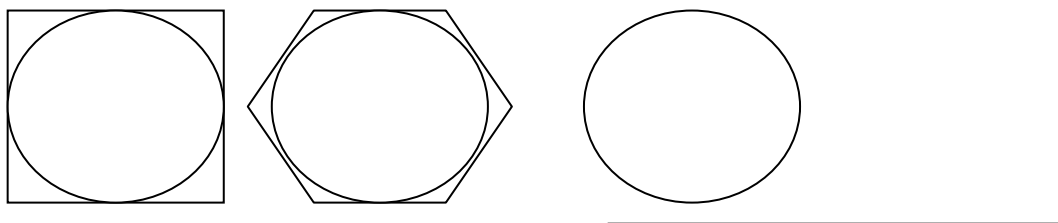


luas lingkaran adalah limit untuk  $n \rightarrow \infty$  dari luas – luas  $P_n$

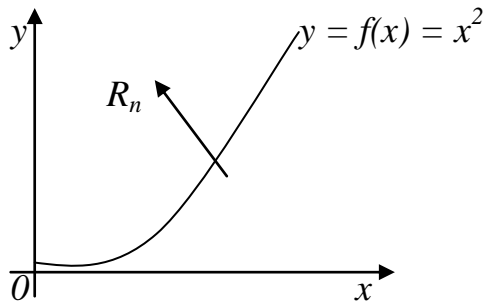
$L(F)$  = luas suatu daerah  $F$

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

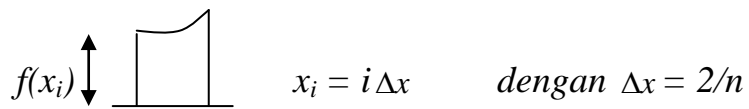
### *Polygon luar*



**Luas menurut polygon dalam**



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



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

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


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$$L(R_n) =$$


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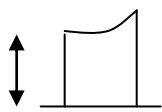
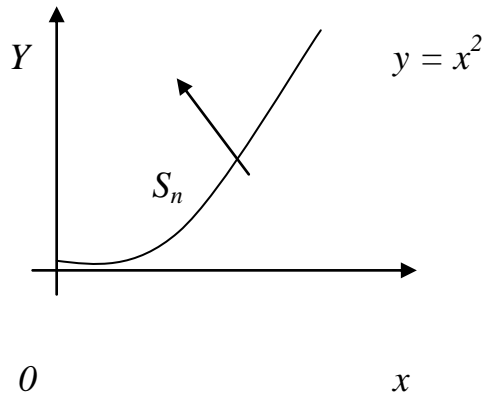


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$$\text{Jadi } L = \lim_{n \rightarrow \infty}$$


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**Luas menurut polygon luar**



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

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$$L(S_n) =$$

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

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**Latihan Soal p.336 No. 1,3,5,6**