- $M_i^f = \sup\left\{f(x) \mid x \in [x_{i-1}, x_i]\right\}$

- $m_i^f = \inf\left\{f(x) \mid x \in [x_{i-1}, x_i]\right\}$

- $U(P, f) = \sum\limits_{i=1}^{n} M_i^f \, \Delta x_i$

- $L(P, f) = \sum\limits_{i=1}^{n} m_i^f \, \Delta x_i$