

# Függvénytani ismételés, differenciálszámítás

$$y=f(x)$$

Függő  
változó

Független  
változó

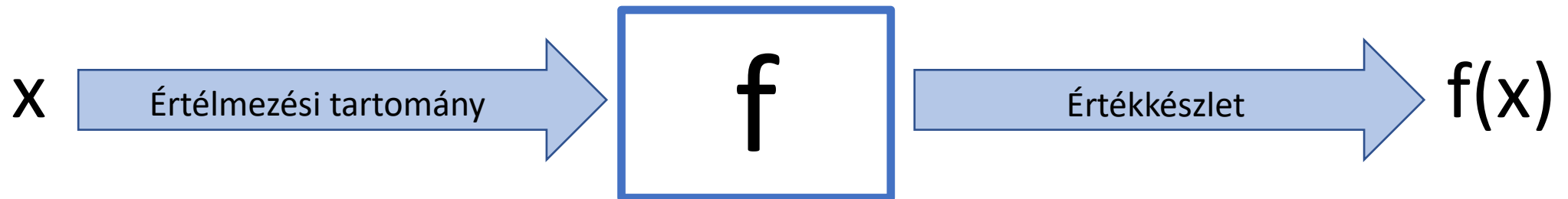
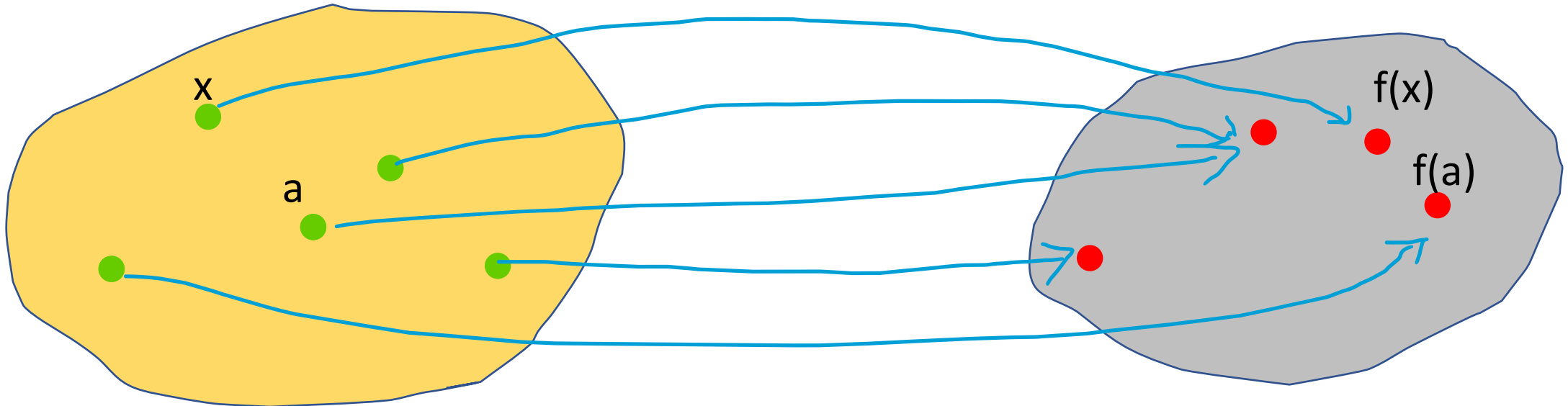
Az  $y$  az  $x$   
függvénye.

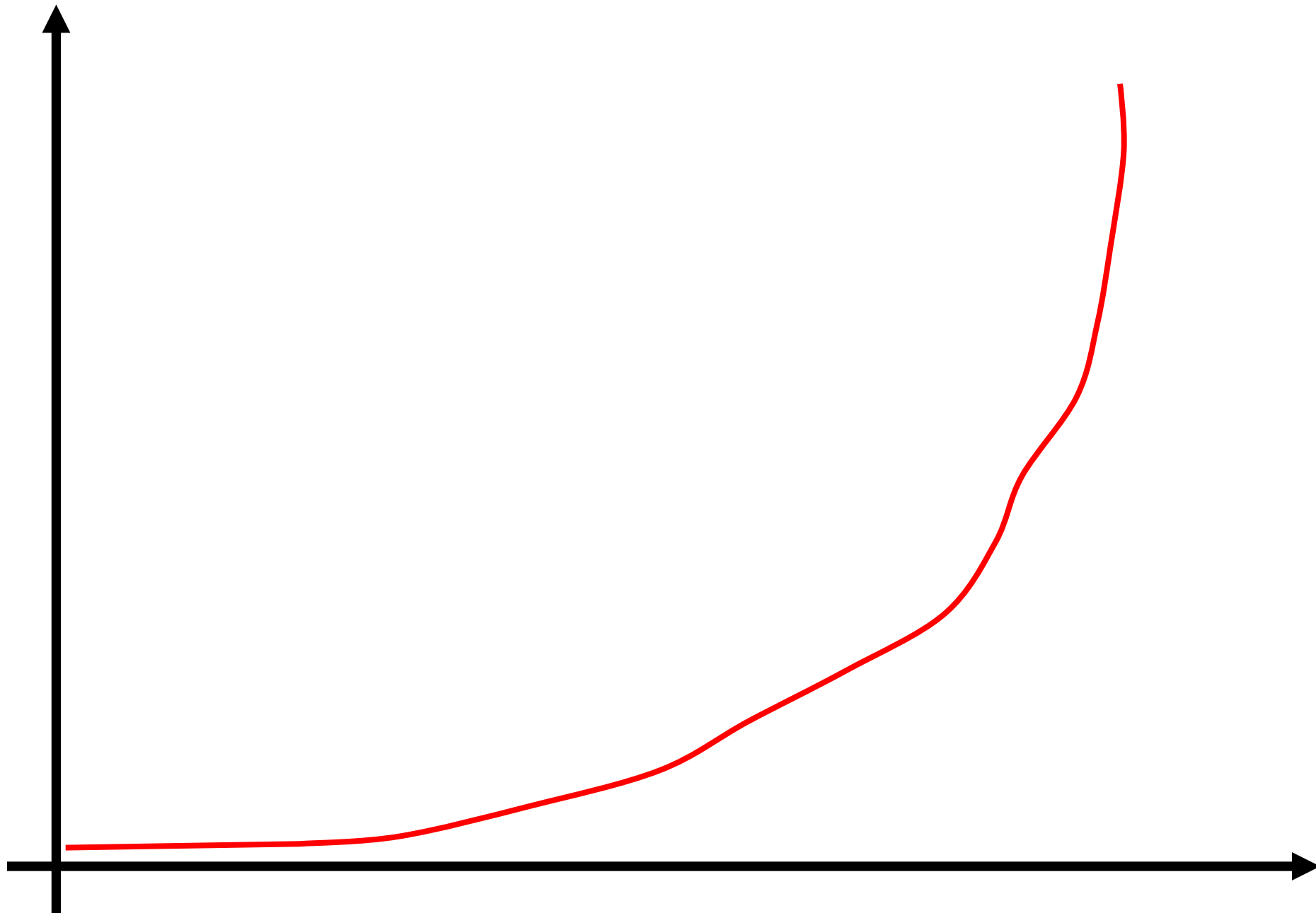
$$Kör(T) = \pi r^2$$

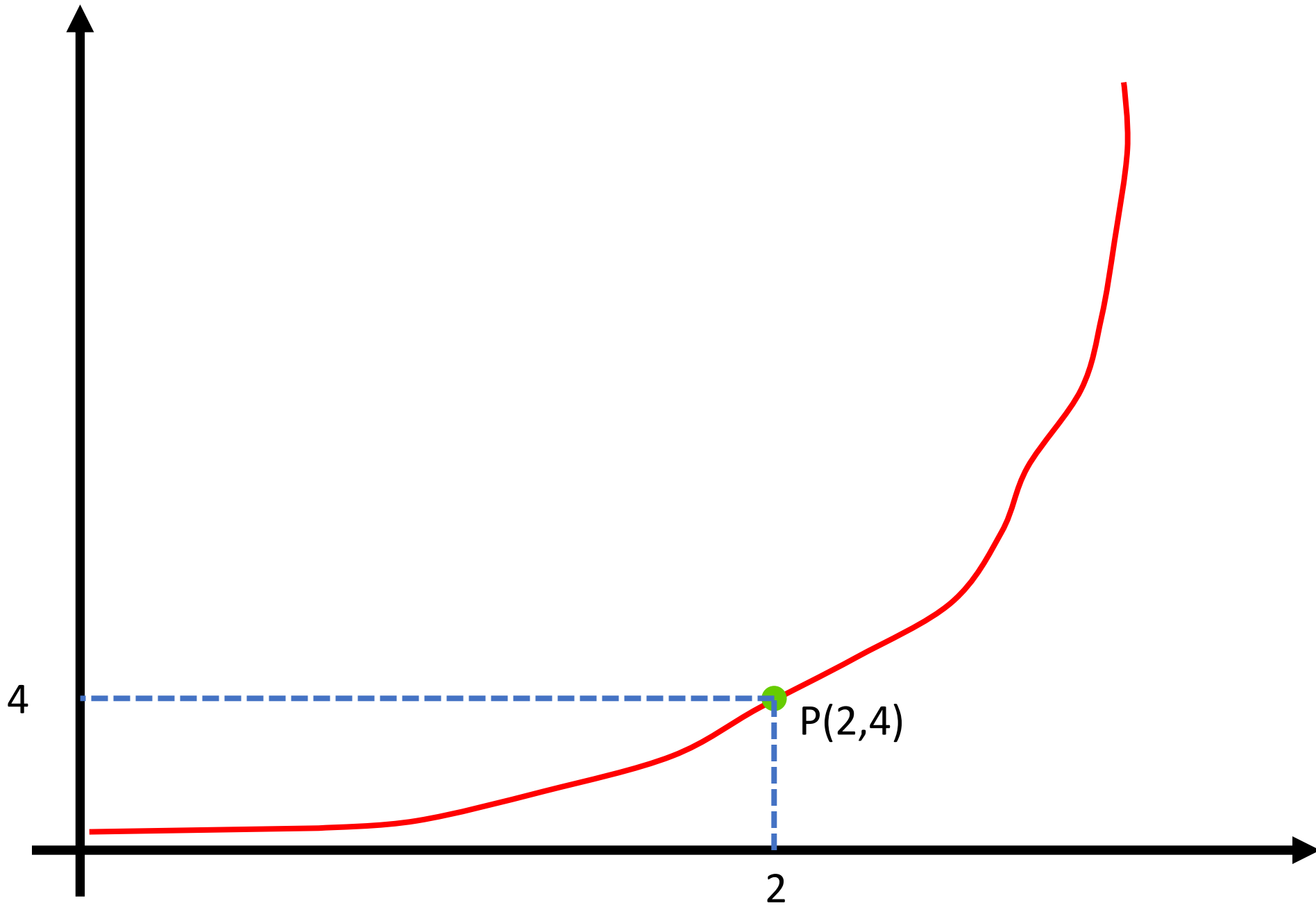
# Grafikus hozzárendelési szabály

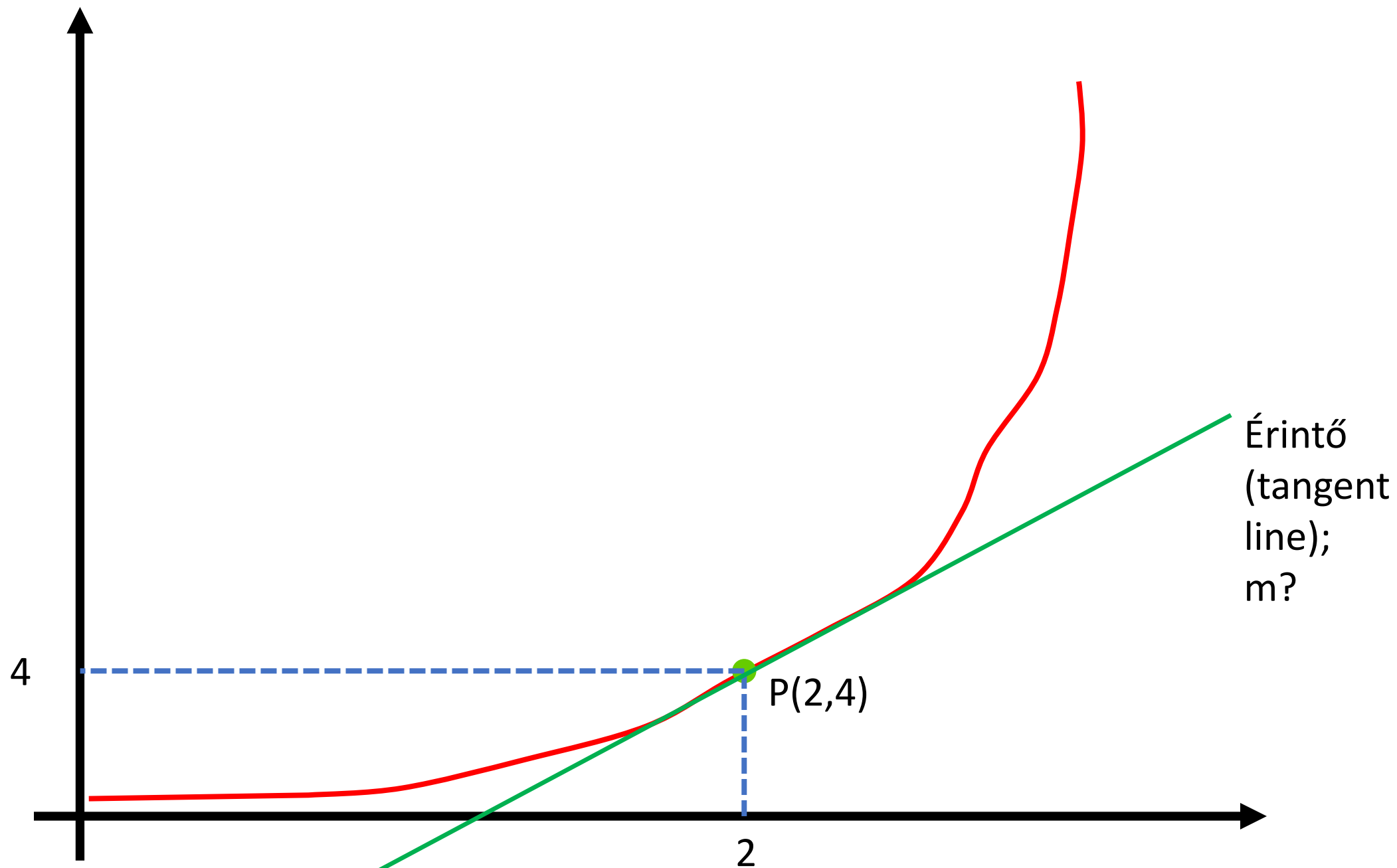
D halmaz

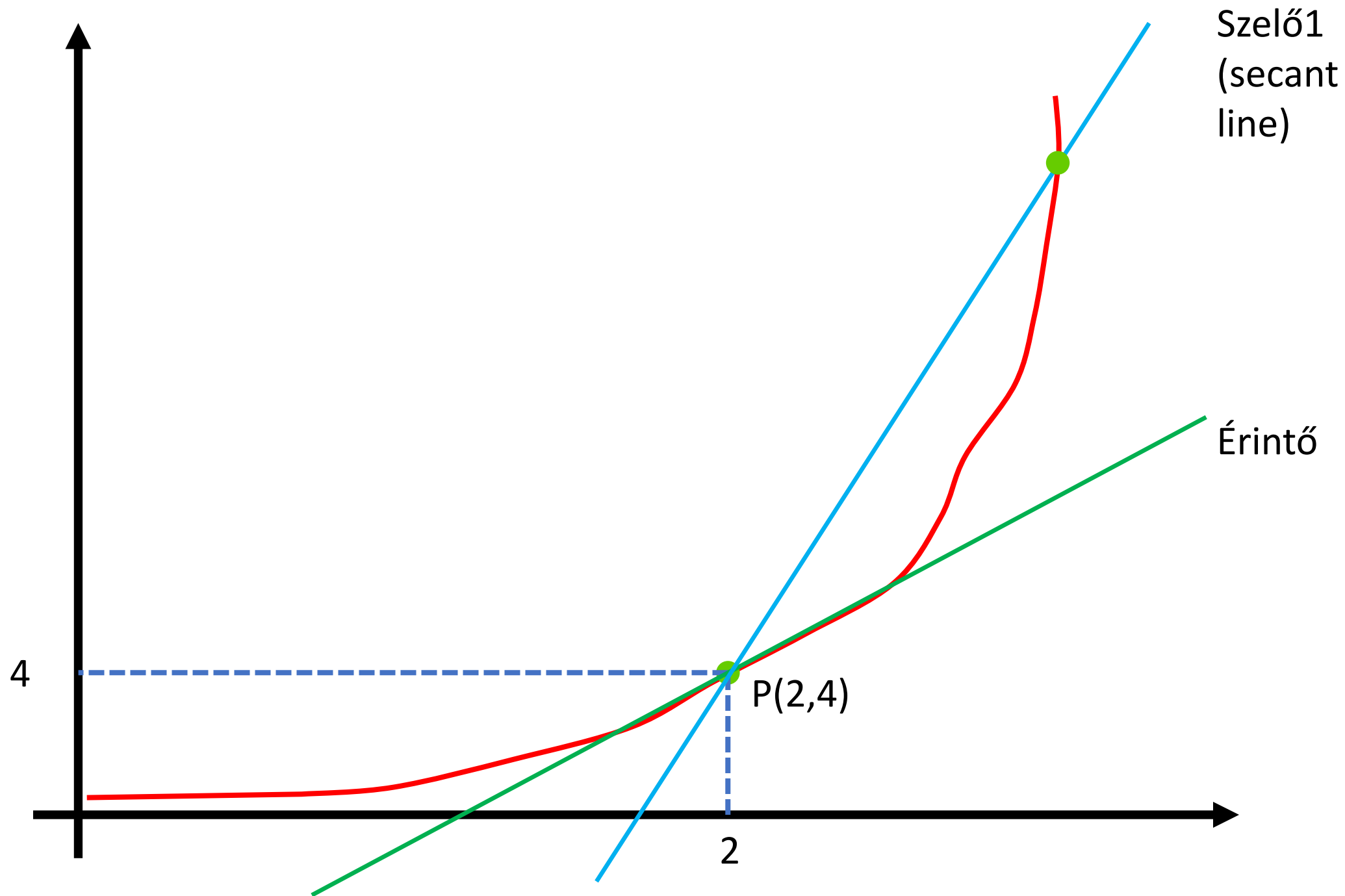
Y halmaz

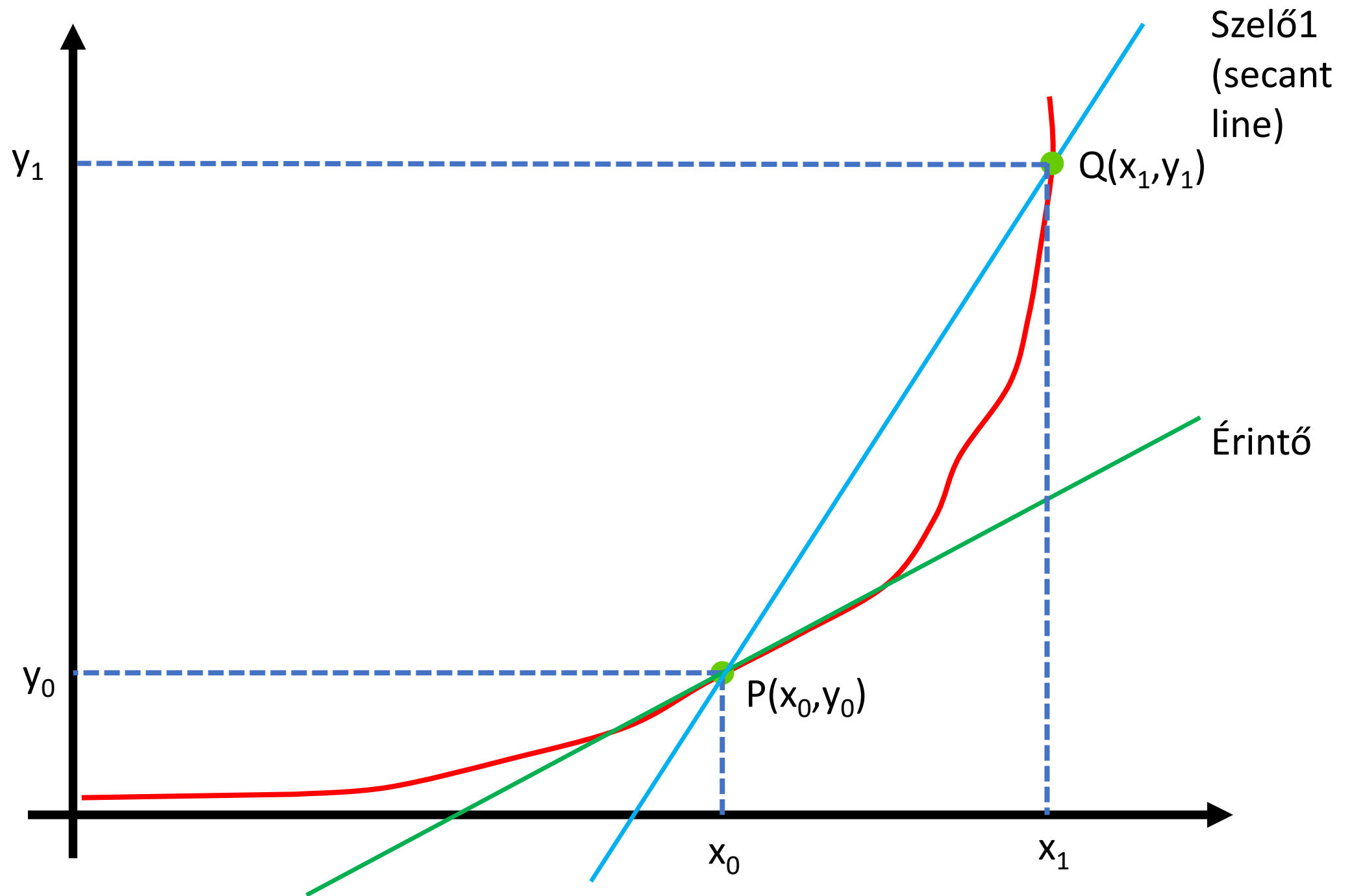




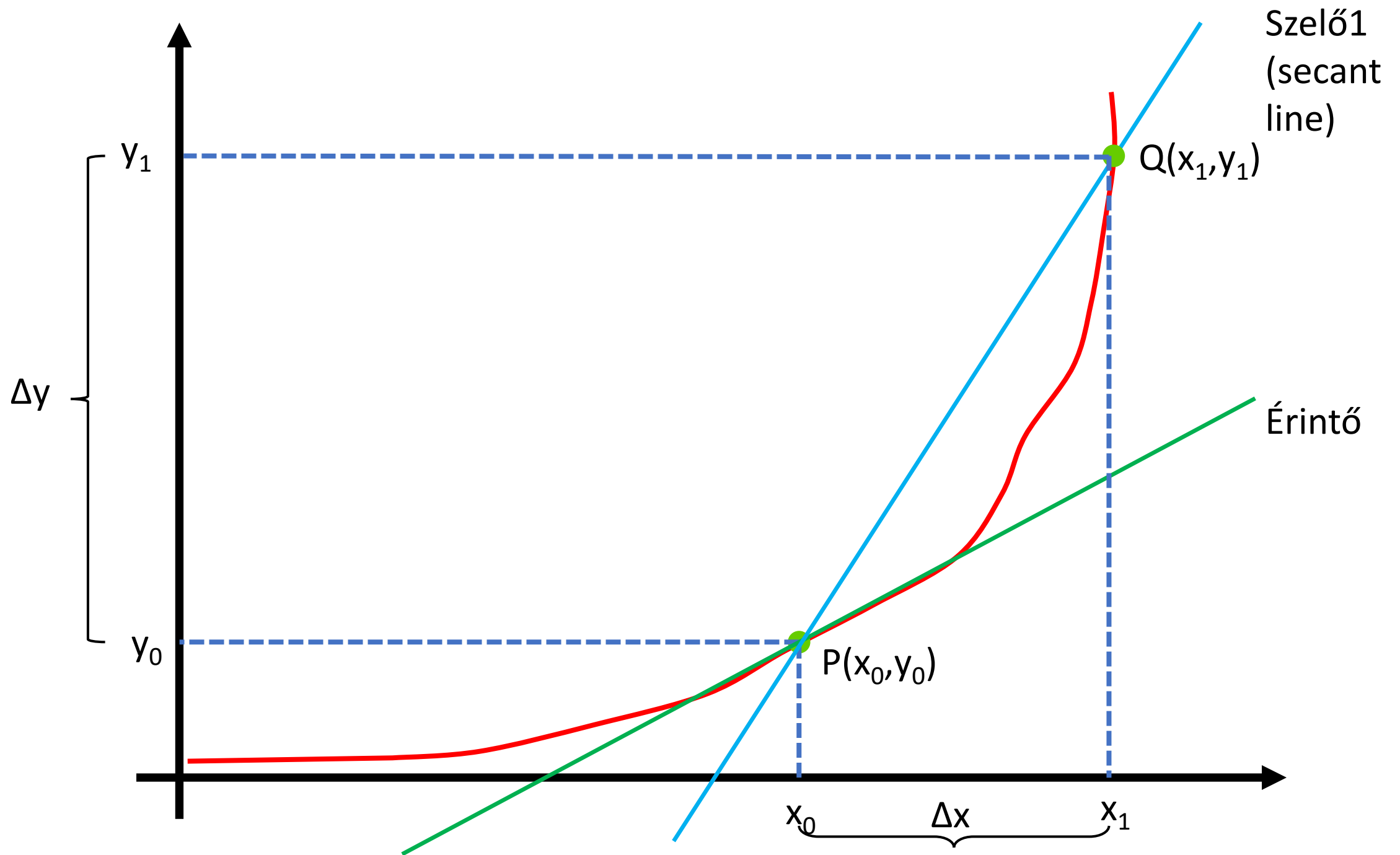


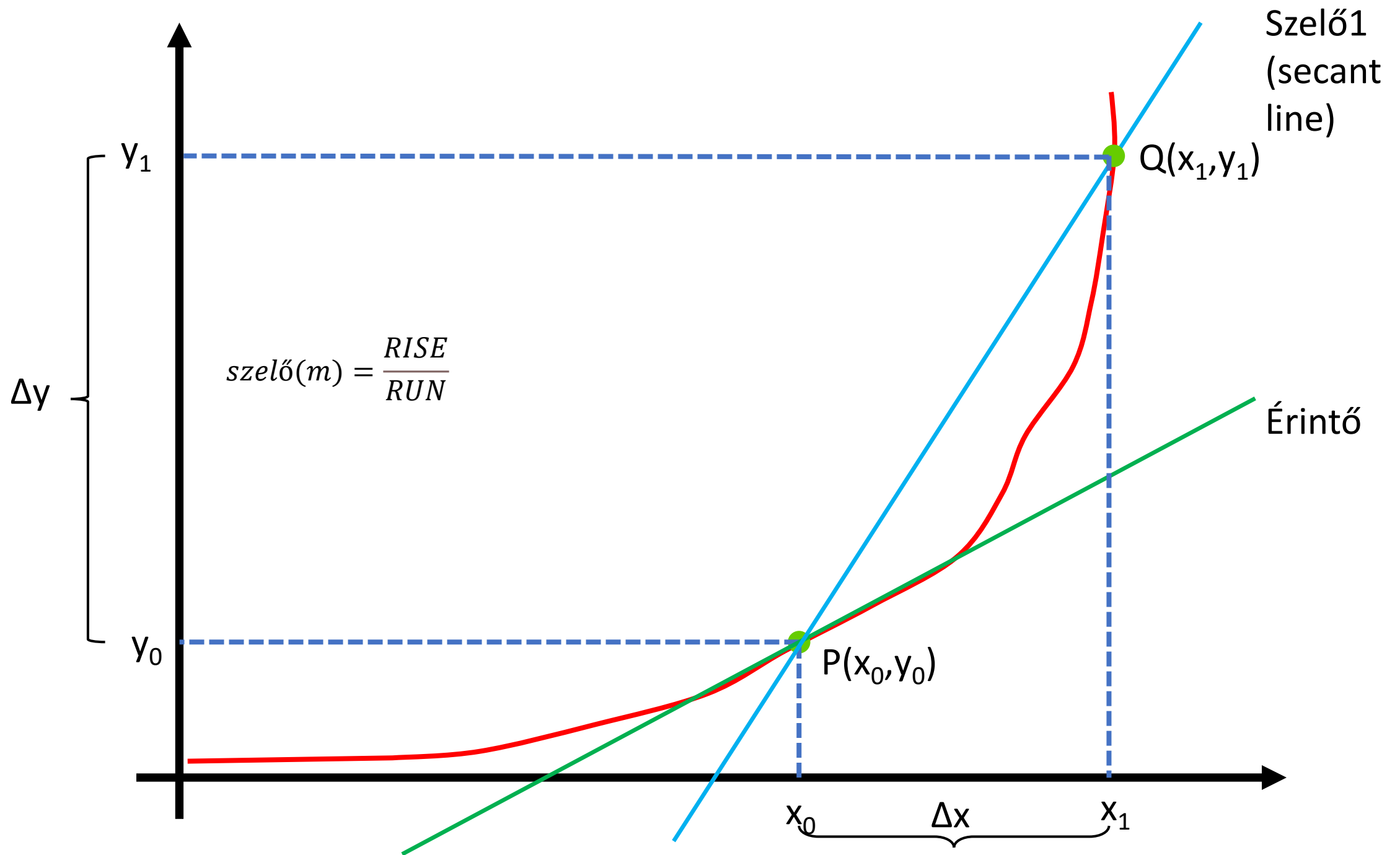


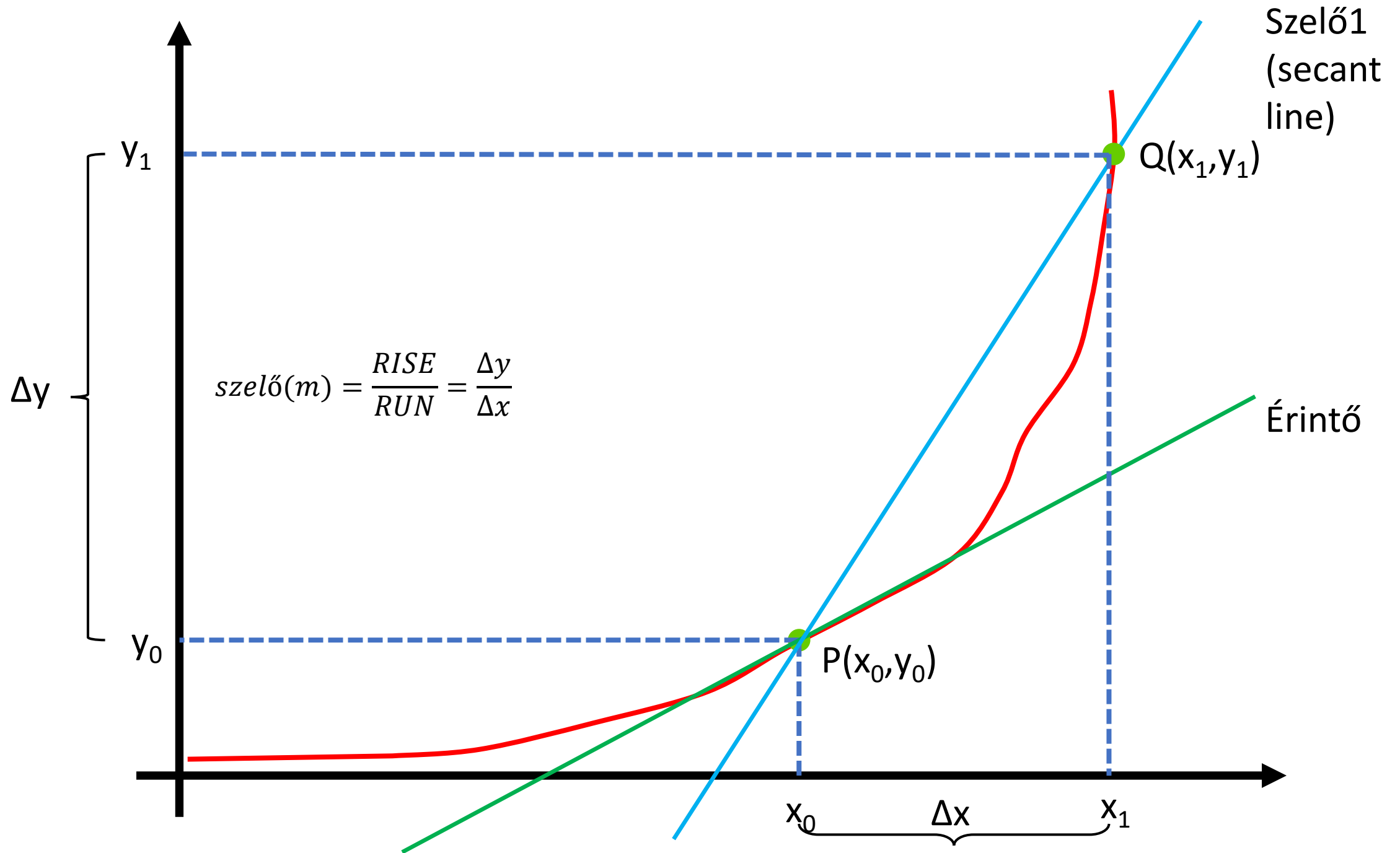


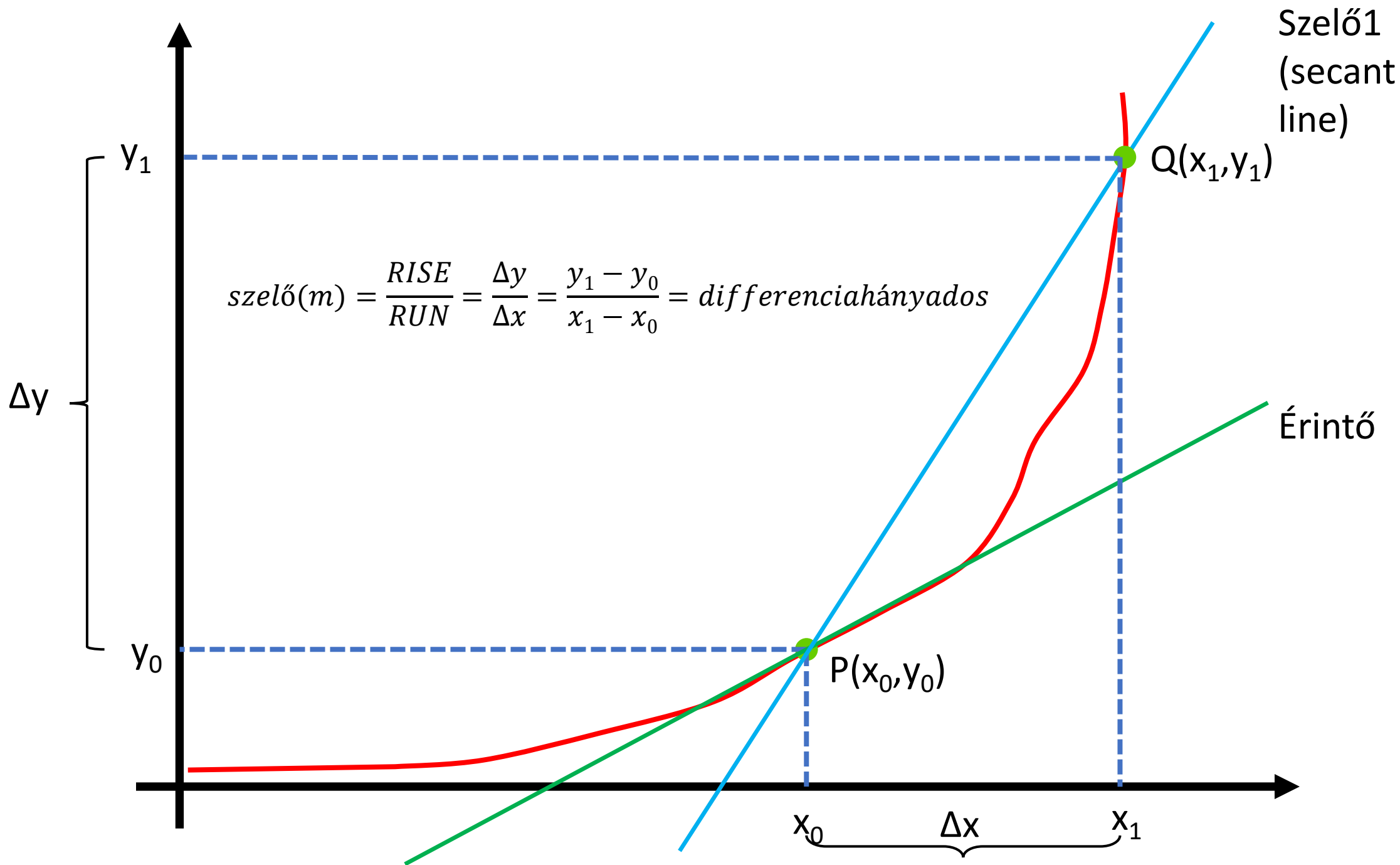












$\Delta y$

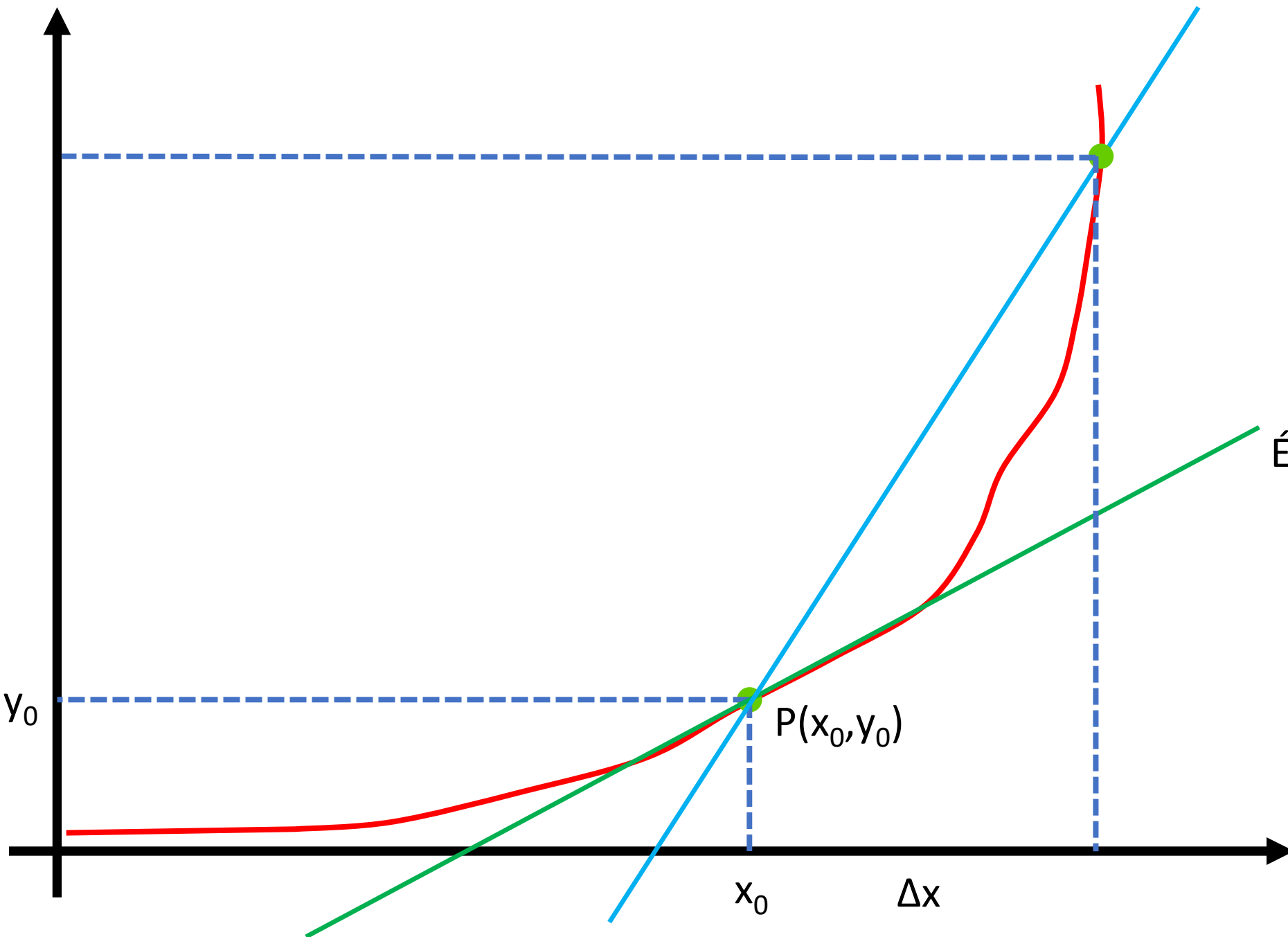
$y_0$

$x_0$

$\Delta x$

$P(x_0, y_0)$

Érintő



$\Delta y$

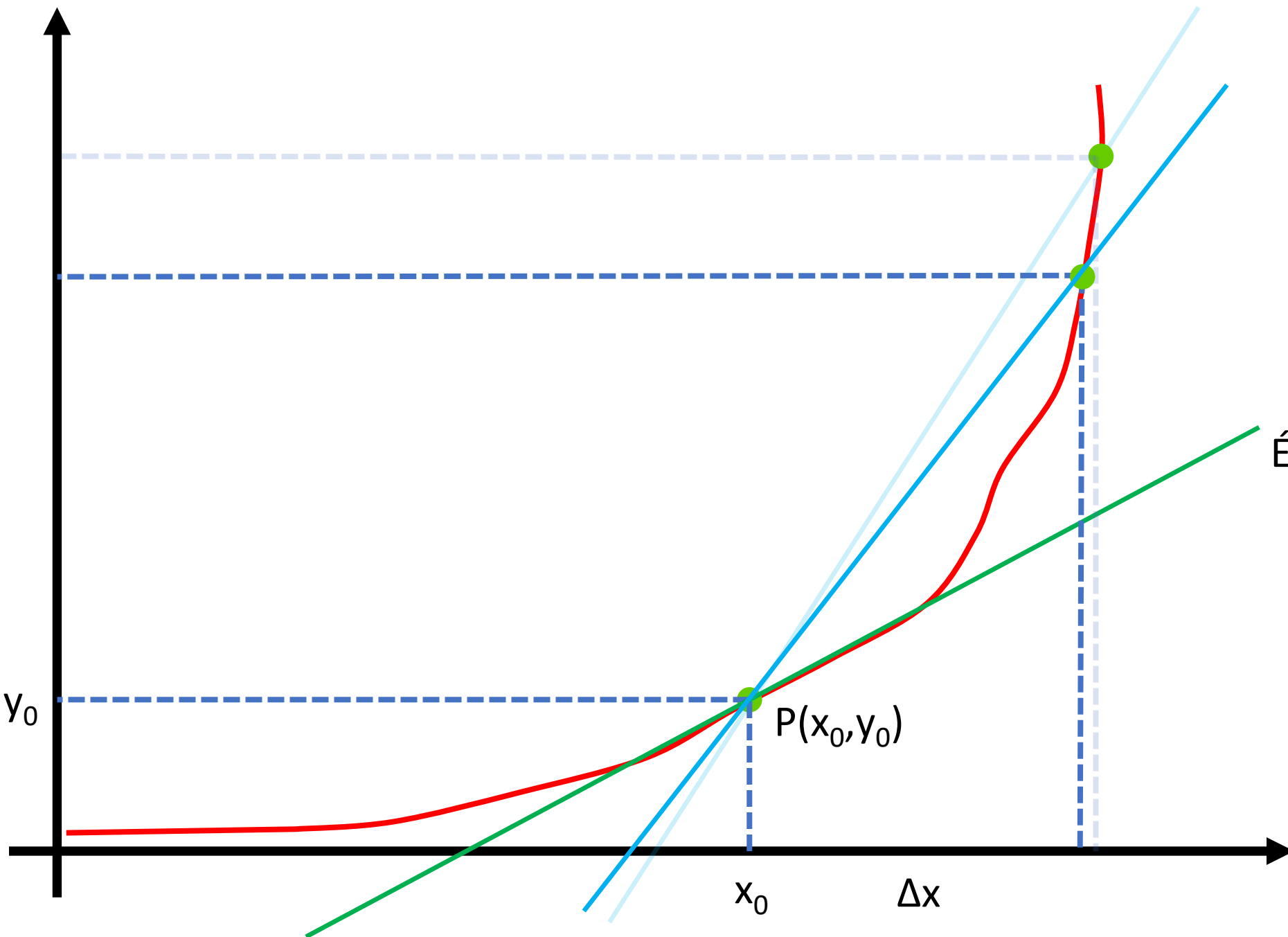
$y_0$

$x_0$

$\Delta x$

$P(x_0, y_0)$

Érintő



$\Delta y$

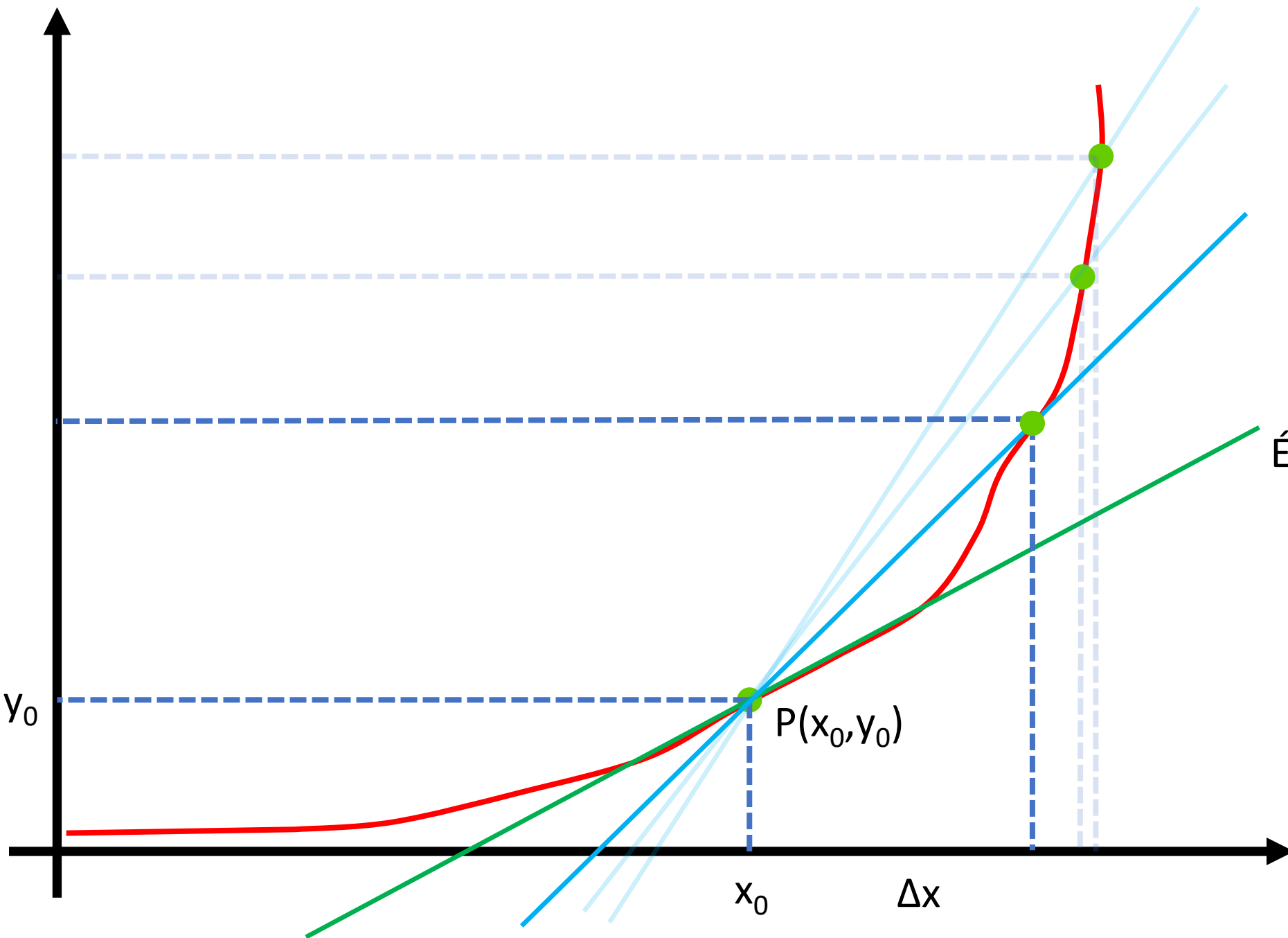
$y_0$

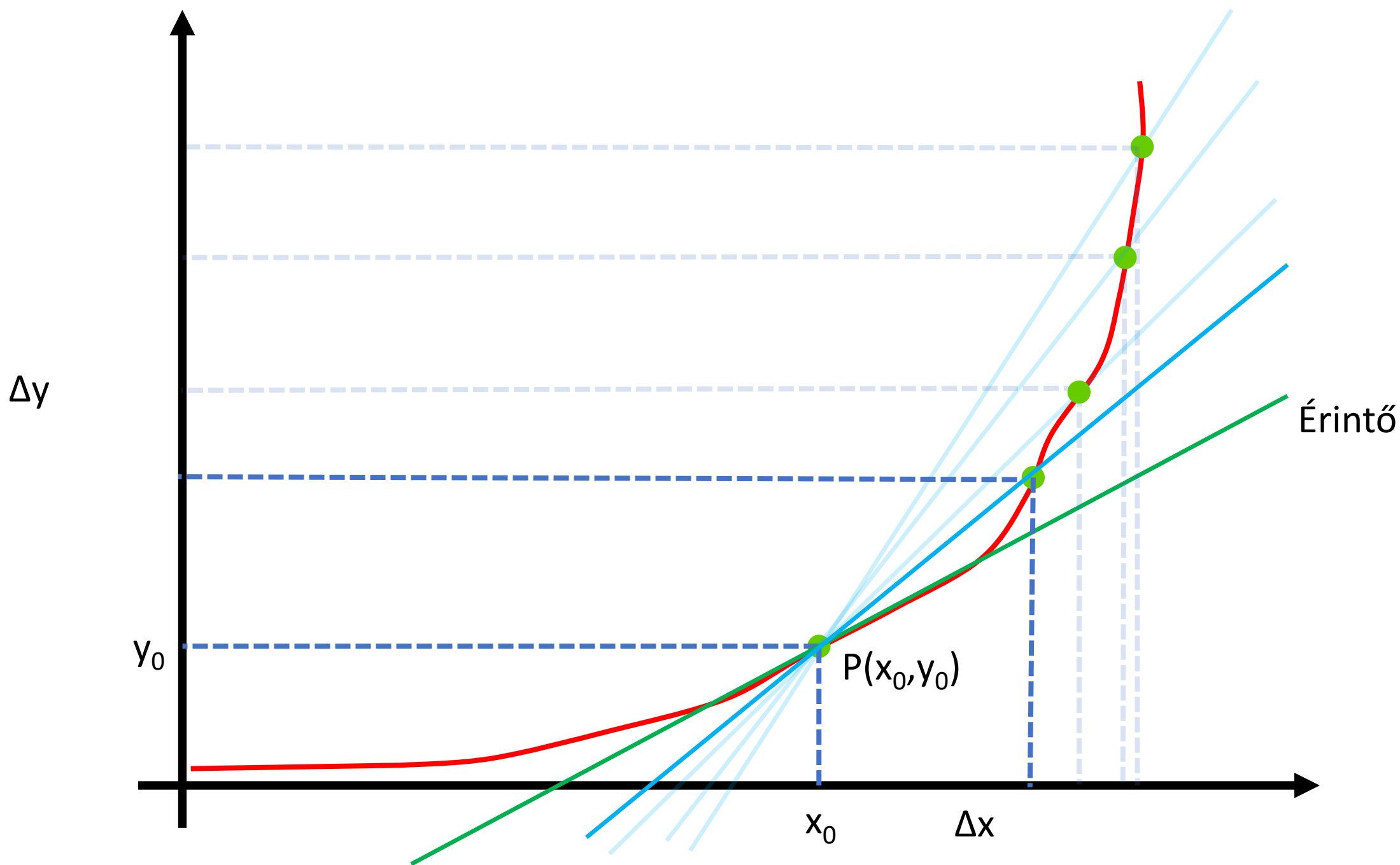
$x_0$

$\Delta x$

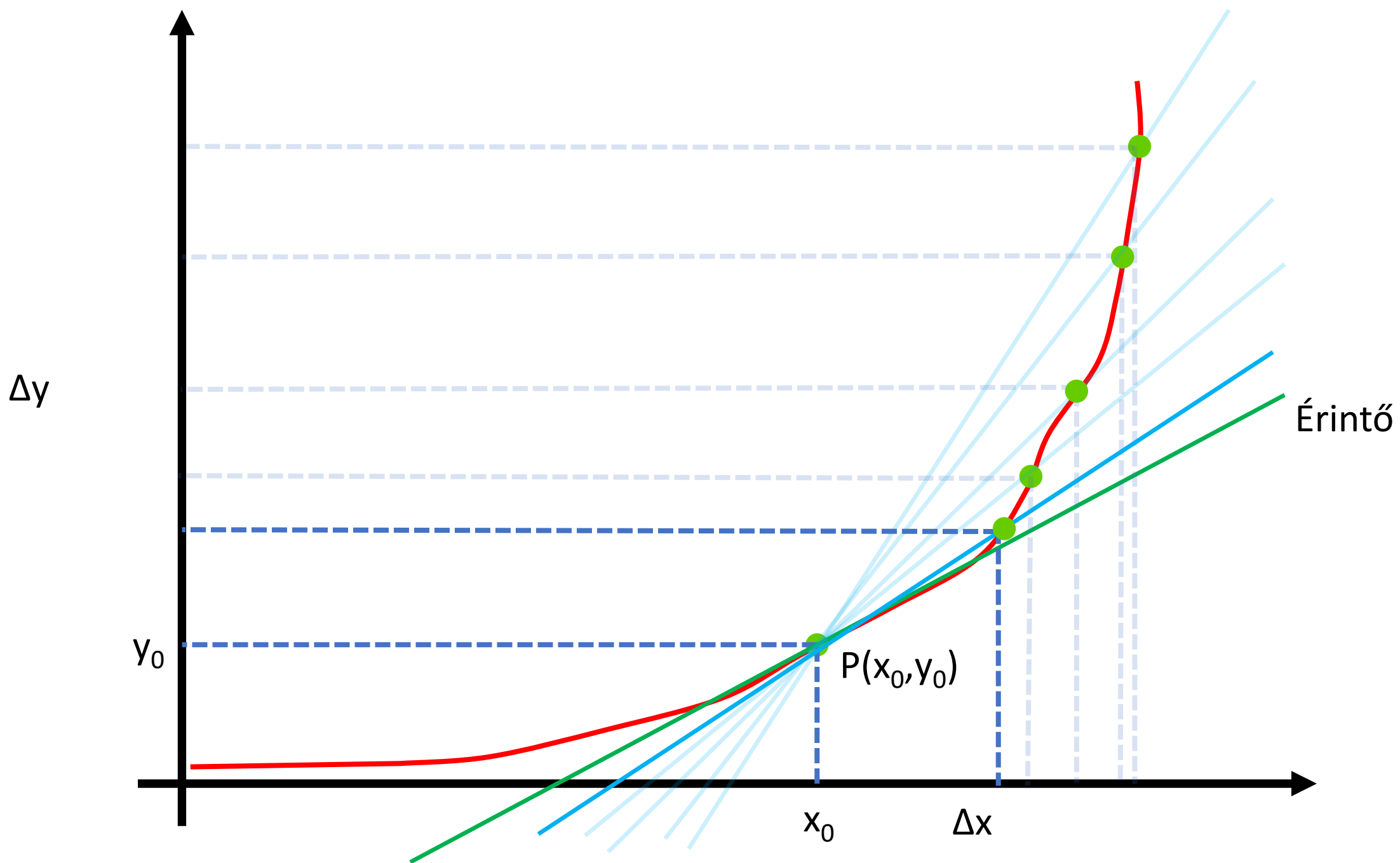
$P(x_0, y_0)$

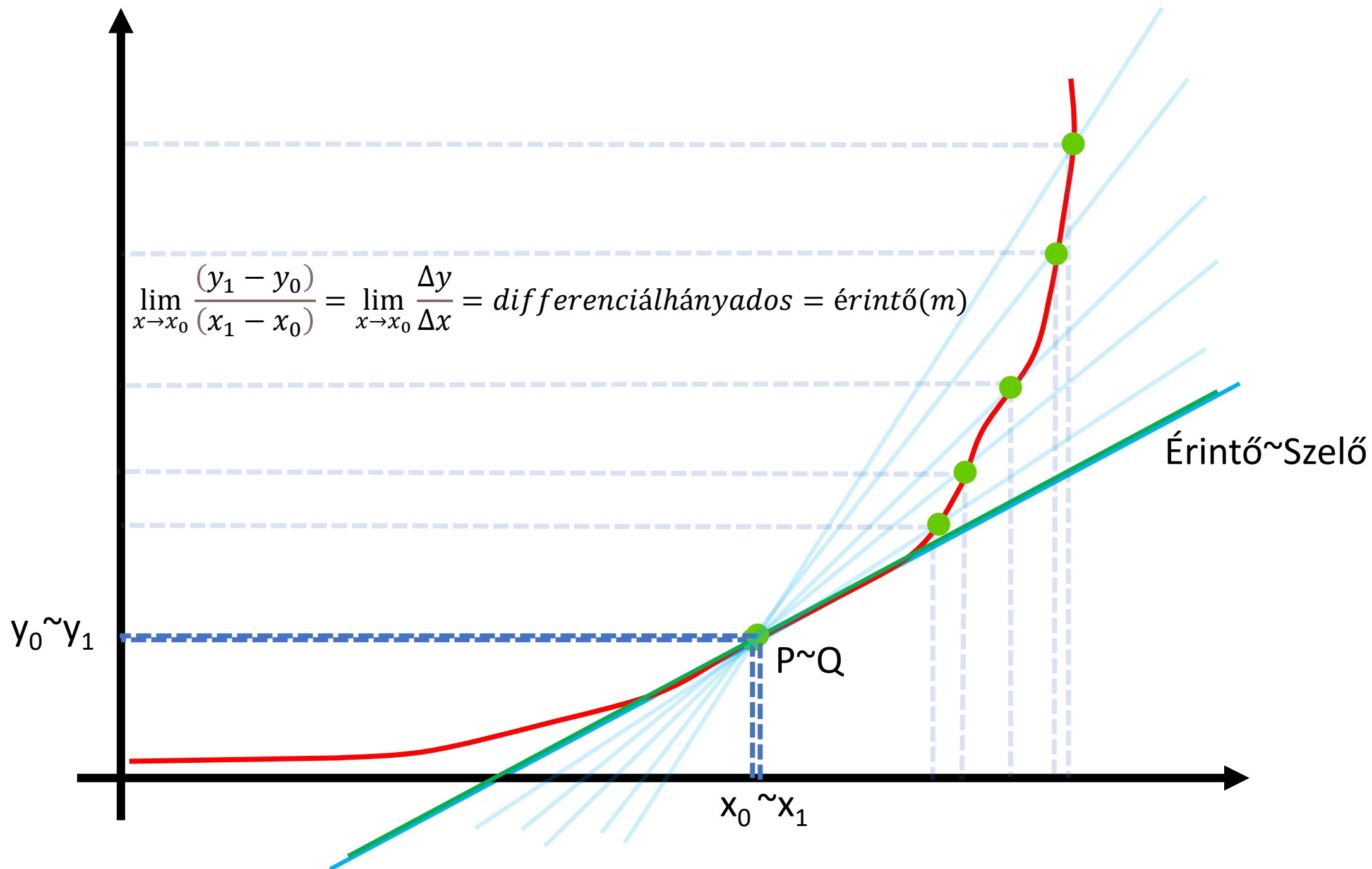
Érintő











„Az érintő meredeksége a szelők meredekségének  
határértéke.” (Thomas et al., (2008)

$$\lim_{x \rightarrow x_0} \frac{(y_1 - y_0)}{(x_1 - x_0)} = \lim_{x \rightarrow x_0} \frac{\Delta y}{\Delta x} = \text{differenciáhányados} = \text{érintő}(m)$$

