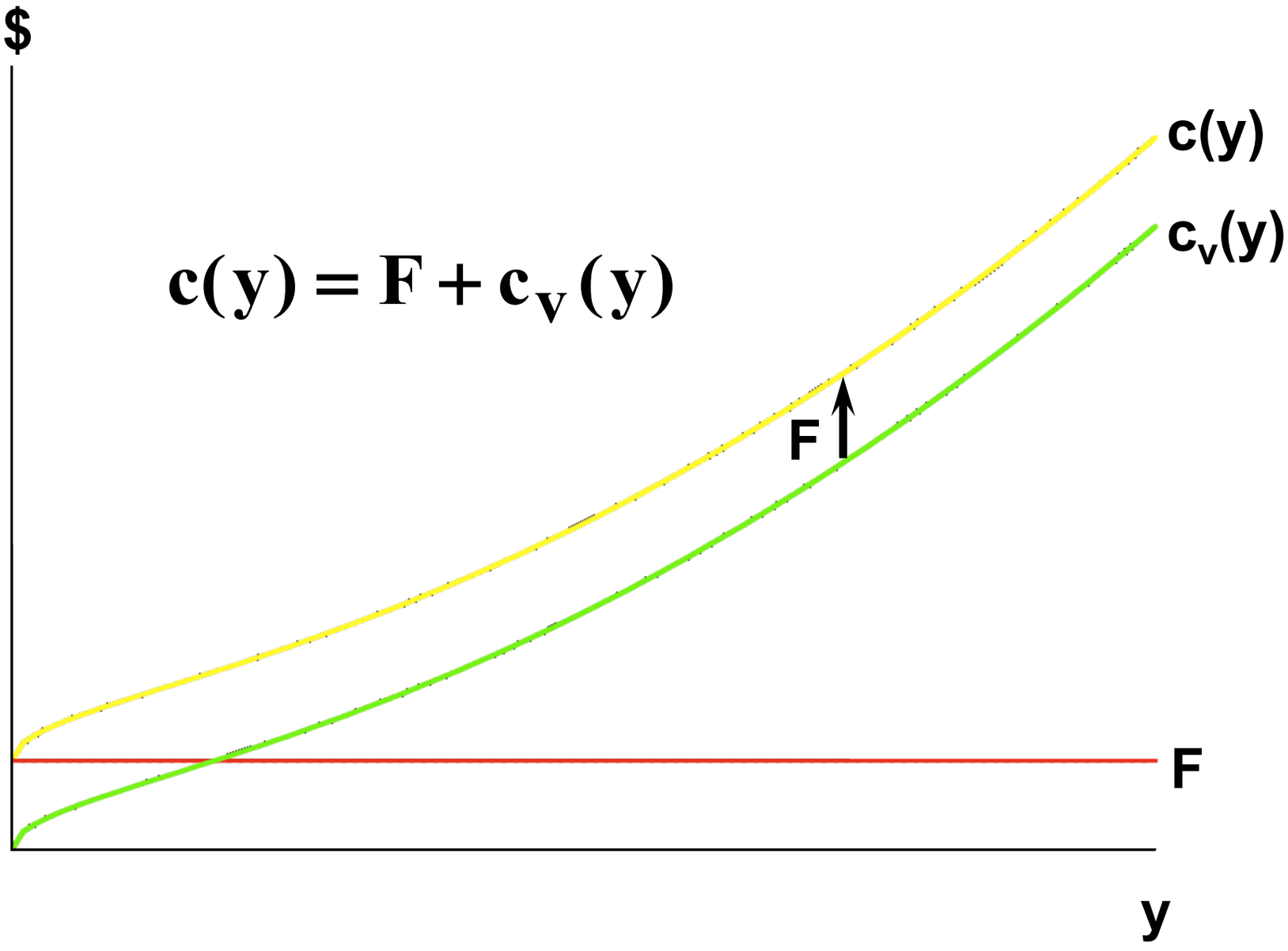
ECO1113 - Teoria Microeconômica I N

Professor Juliano Assunção

Curvas de Custo

Curvas de Custo

$$c(y) = F + c_v(y)$$

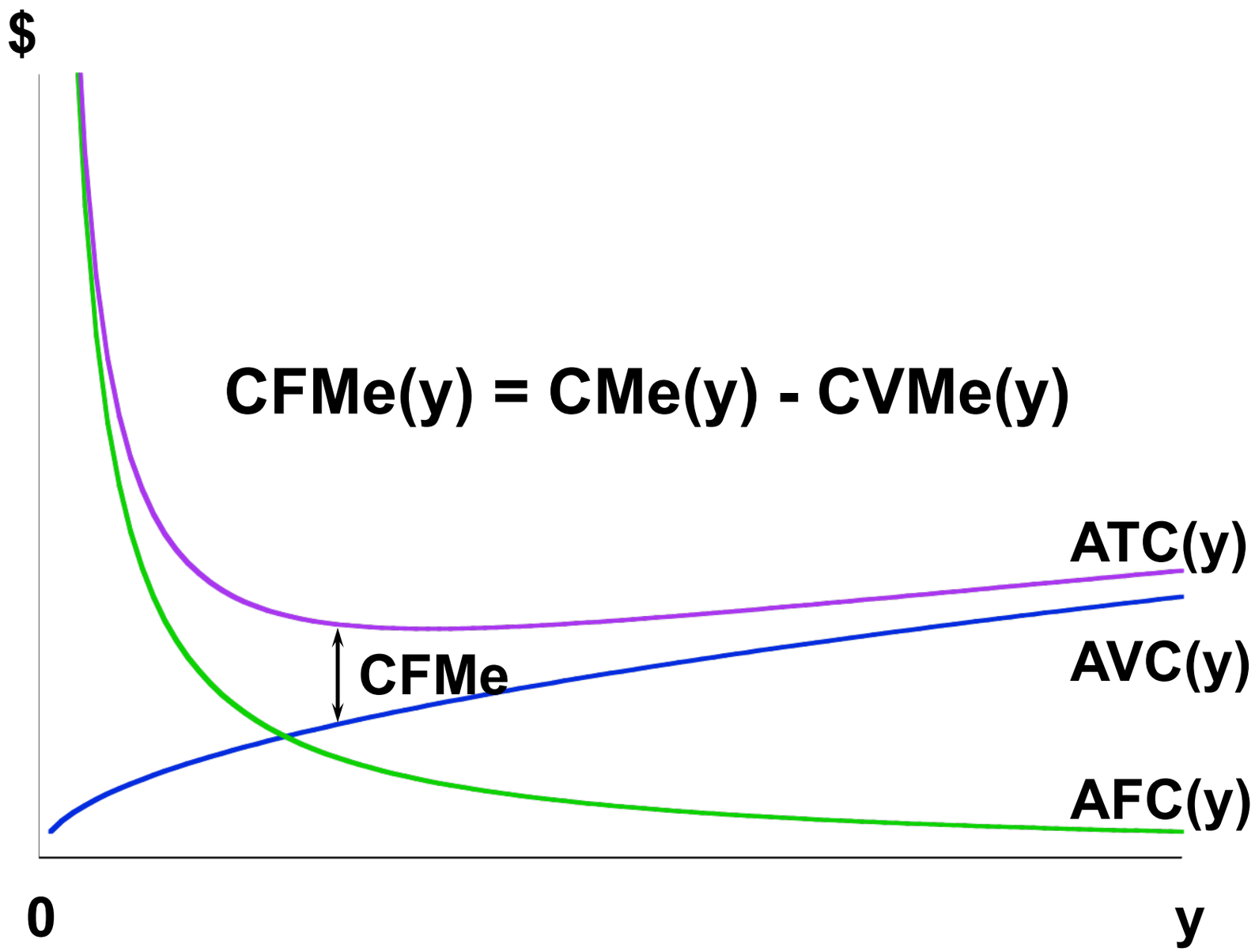


Curvas de Custo Médio

$$c(y) = F + c_v(y)$$

$$\begin{aligned} CMe(y) &= \frac{c(y)}{y} \\ &= \frac{F}{y} + c_v(y) \\ &= CFMe(y) + CVMe(y) \end{aligned}$$

Curvas de Custo Médio



CFMe(y) = CMe(y) - CVMe(y)

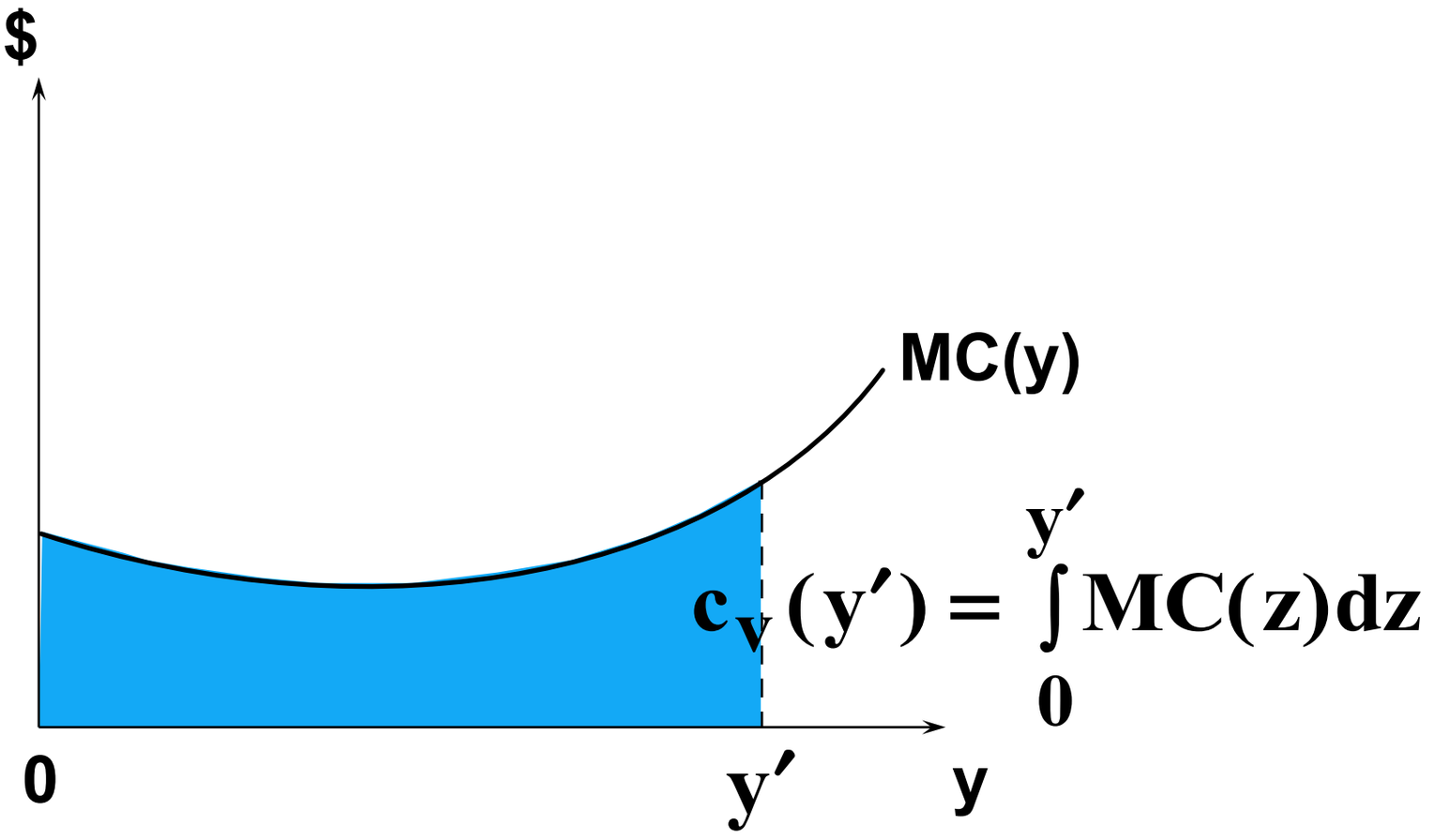
Como CFMe tende a zero com o aumento de y, o CMe tende ao CVMe.

Curvas de Custo Marginal

$$c(y) = F + c_v(y)$$

$$CMa(y) = \frac{\partial c(y)}{\partial y} = \frac{\partial c_v(y)}{\partial y}$$

Curvas de Custo Marginal



Curva de Custo Variável Médio e Custo Marginal

$$CVMe(y) = \frac{c_v(y)}{y}$$

$$\frac{\partial CVMe(y)}{\partial y} = \frac{y \cdot CMa(y) - c_v(y)}{y^2}$$

$$\frac{\partial CVMe(y)}{\partial y} \begin{matrix} > \\ = \\ < \end{matrix} 0 \Leftrightarrow CMa(y) \begin{matrix} > \\ = \\ < \end{matrix} \frac{c_v(y)}{y} = CVMe(y)$$

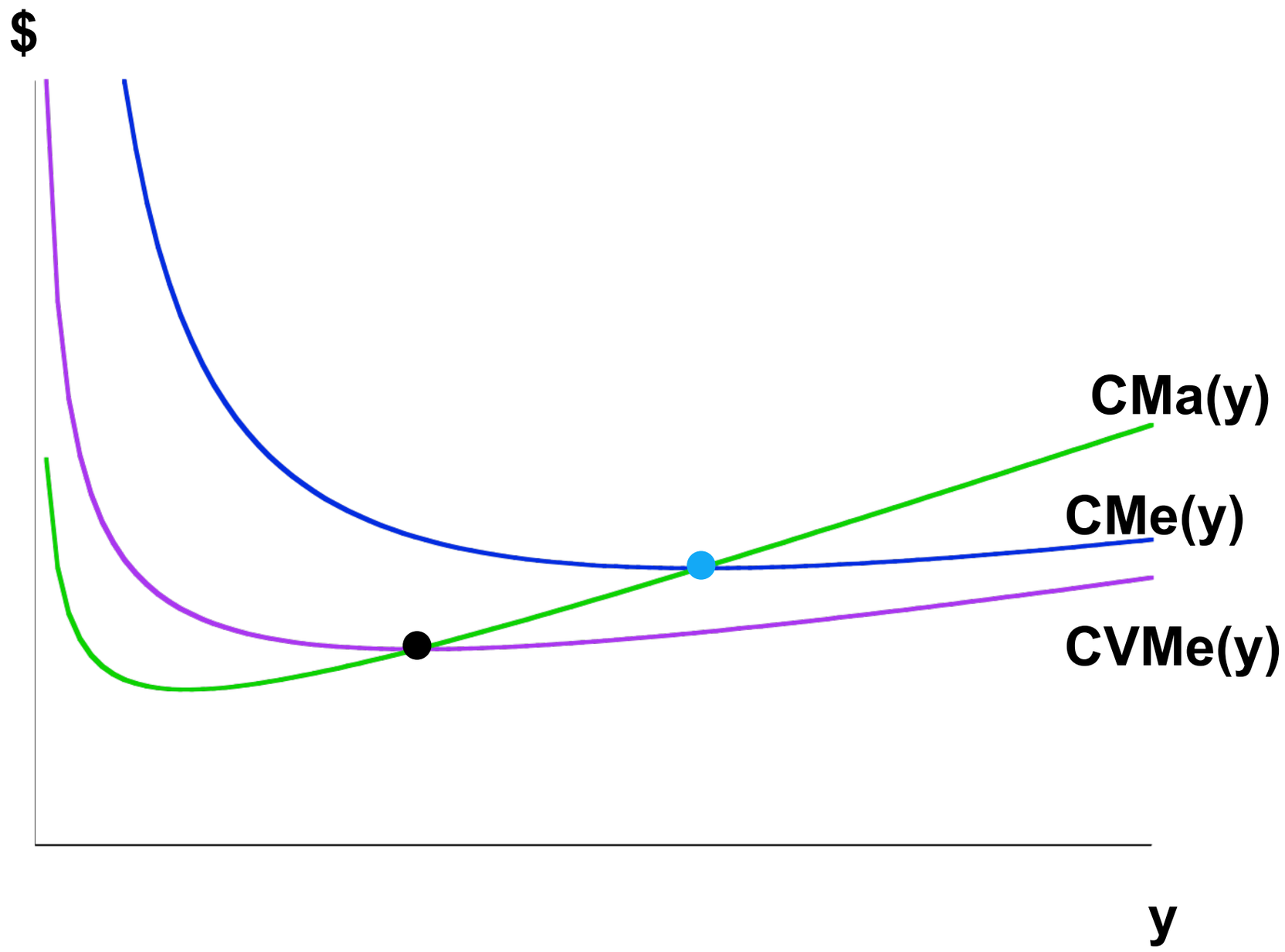
Curva de Custo Médio e Custo Marginal

$$CMe(y) = \frac{c(y)}{y}$$

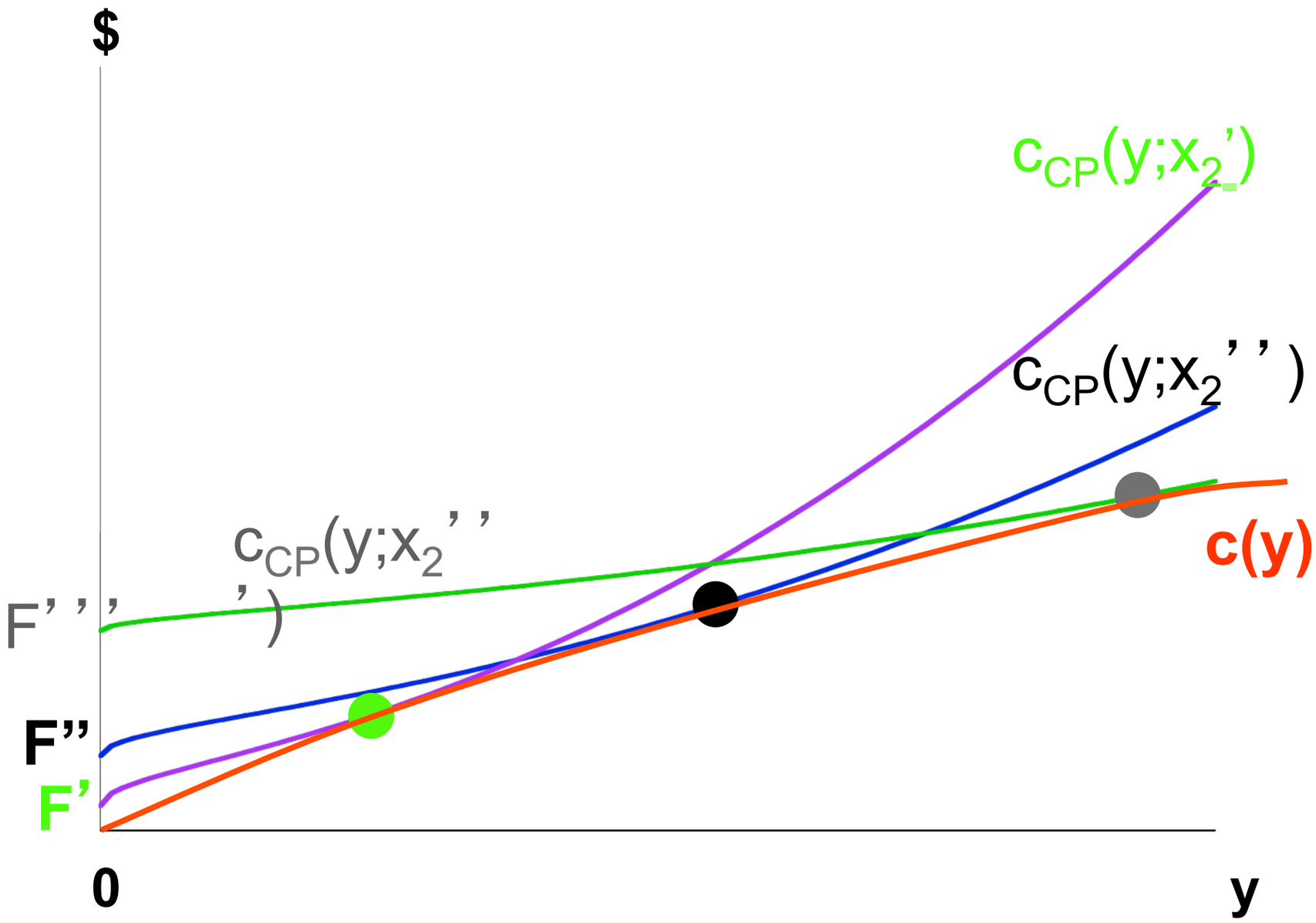
$$\frac{\partial CMe(y)}{\partial y} = \frac{y \cdot CMa(y) - c(y)}{y^2}$$

$$\frac{\partial CMe(y)}{\partial y} \begin{matrix} > \\ = \\ < \end{matrix} 0 \Leftrightarrow CMa(y) \begin{matrix} > \\ = \\ < \end{matrix} \frac{c(y)}{y} = CMe(y)$$

Curvas de Custo

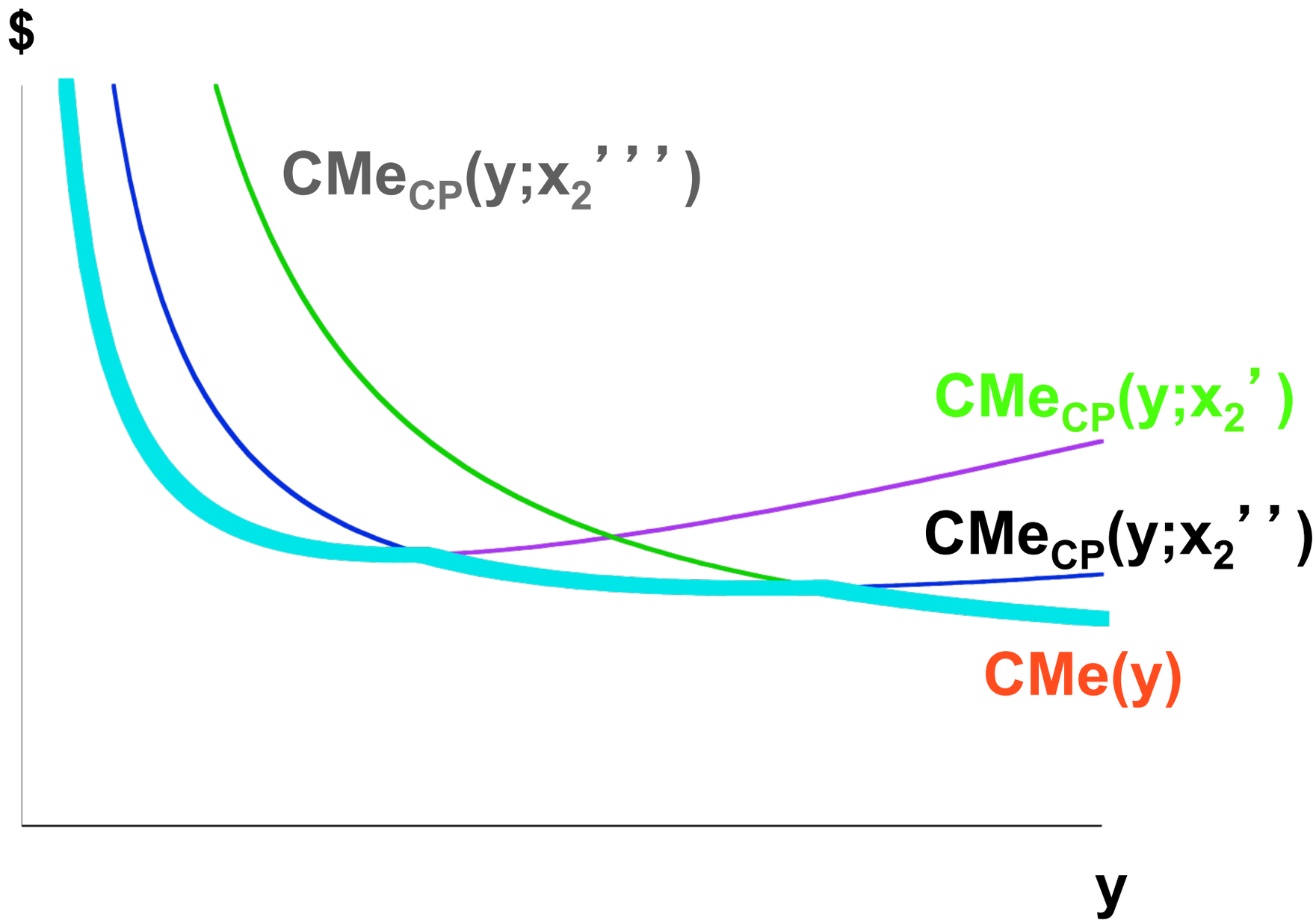


Curvas de Custo de Curto-Prazo e Longo-Prazo



No longo-prazo, a curva de custo é o envelope inferior das curvas de custo de curto prazo.

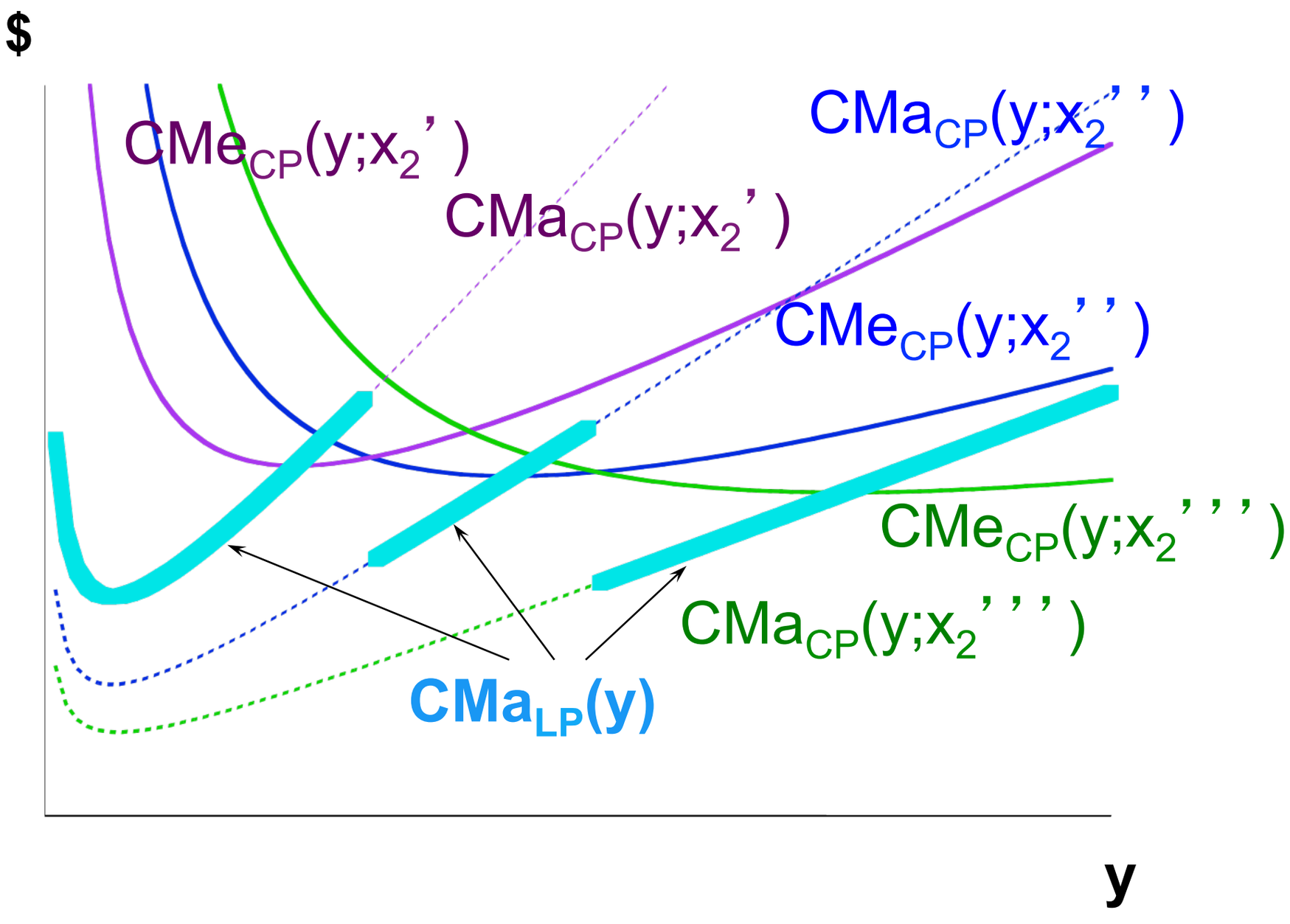
Curvas de Custo Médio de Curto-Prazo e Longo-Prazo



O mesmo vale para as curvas de custo médio.

Curvas de Custo de Curto-Prazo e Longo-Prazo

(3 níveis de insumos fixos)



Curvas de Custo de Curto-Prazo e Longo-Prazo