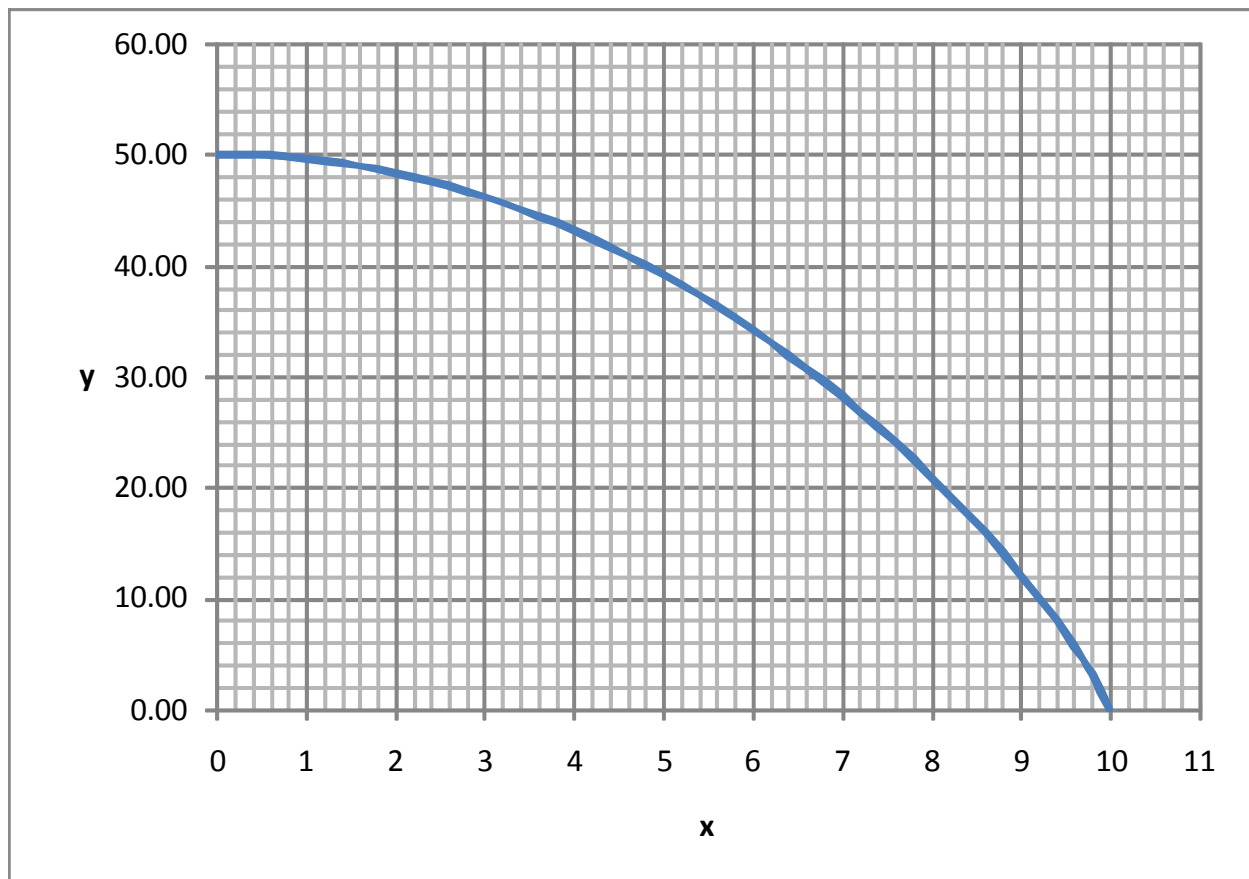


A Simple Model of a Perfectly Competitive Firm

Assumptions

1. The firm produces two goods, x and y .
2. All necessary factors of production are in place and have been paid for.
3. The production possibilities frontier for this firm is given below.
4. The market prices of x and y are, respectively, €1 and €1 per unit.

Determine the optimum quantities of x and y produced by this profit-maximizing firm.



Mathematical Appendix

The underlying equations for the above Production Possibilities Frontier are:

$$x = L_1^\beta$$

$$y = L_2^\alpha$$

$$L_1 + L_2 = L.$$

In the drawing of the above Production Possibilities Frontier the following assumptions have been made:

$$\alpha = 0.85, \quad \beta = 0.50, \quad L = 100.$$