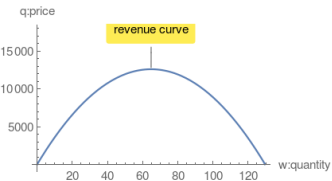


2.

2. (a) Basis for the Revenue model is a simple multiplication:

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-3w + 389) \times w = 389w - 3w^2$$

Notice the latter is a quadratic:



(b) Domain starts at 0 Euros revenue up to w-intercept coordinate equal to twice the value of vertex of the Parabola:

$$\frac{389}{3}$$

(d) The maximum occurs at the vertex w-intercept coordinate:

$$\frac{389}{6}$$

or the amount 12610.1 Euros .