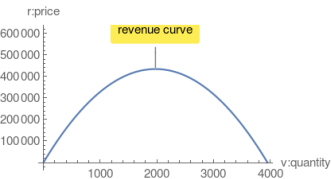


2.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{9}v + 439\right) \times v = 439v - \frac{v^2}{9}$$

Notice the latter is a quadratic:



(b) Domain starts at 0 Euros revenue up to v-intercept coordinate equal to twice the value of vertex of the Parabola:
3951

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

$$\frac{3951}{2}$$

or the amount 433622. Euros .