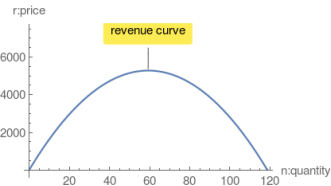


2.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{2}n + 178\right) \times n = 178n - \frac{3n^2}{2}$$

Notice the latter is a quadratic:



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

$$\frac{356}{3}$$

(4) The maximum occurs at the vertex n-intercept coordinate:

$$\frac{178}{3}$$

or the amount 5280.66 Euros .