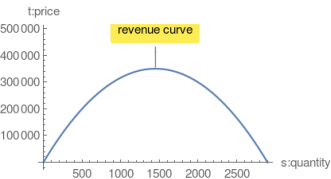


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{6}s + 483\right) \times s = 483s - \frac{s^2}{6}$$

Notice the latter is a quadratic:



(2) Domain starts at 0 Euros revenue up to s-intercept coordinate equal to twice the value of vertex of the Parabola:
2898

(4) The maximum occurs at the vertex s-intercept coordinate:
1449

or the amount 349934. Euros .