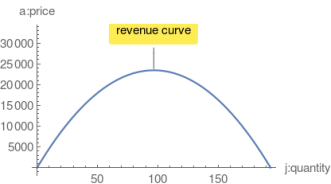


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{5}{2}j + 484\right) \times j = 484j - \frac{5j^2}{2}$$

Notice the latter is a quadratic:



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

$$\frac{968}{5}$$

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

$$\frac{484}{5}$$

or the amount 23425.6 Euros .