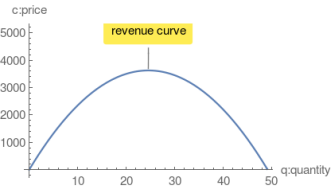


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-6q + 295) \times q = 295q - 6q^2$$

Notice the latter is a quadratic:



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

$\frac{295}{6}$

6

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

$\frac{295}{12}$

12

or the amount 3626.04 Euros .