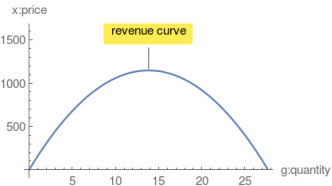


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-6g + 166) \times g = 166g - 6g^2$$

Notice the latter is a quadratic:



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

$\frac{83}{3}$

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

$\frac{83}{6}$

or the amount 1148.16 Euros .