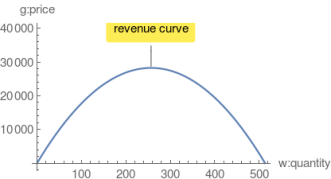


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{7}w + 220\right) \times w = 220w - \frac{3w^2}{7}$$

Notice the latter is a quadratic:



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

$$\frac{1540}{3}$$

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

$$\frac{770}{3}$$

or the amount 28233.3 Euros .