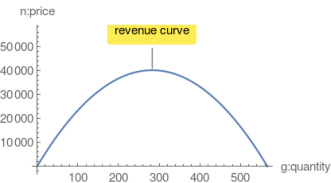


3.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{2}g + 283\right) \times g = 283g - \frac{g^2}{2}$$

Notice the latter is a quadratic:



(B) Domain starts at 0 Euros revenue up to g-intercept coordinate equal to twice the value of vertex of the Parabola:
566

(D) The maximum occurs at the vertex g-intercept coordinate:
283

or the amount 40044.5 Euros .