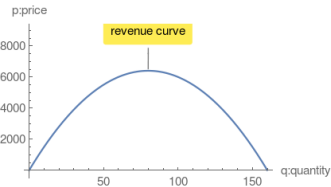


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1q + 160) \times q = 160q - q^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 Euros revenue up to q-intercept coordinate equal to twice the value of vertex of the Parabola:
160

(D) The maximum occurs at the vertex q-intercept coordinate:
80
or the amount 6400. Euros .