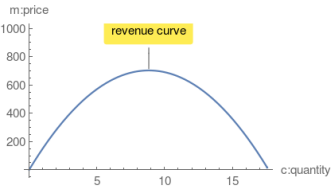


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-9c + 159) \times c = 159c - 9c^2$$

Notice the latter is a quadratic:



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

$\frac{53}{3}$

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

$\frac{53}{6}$

or the amount 702.25 Euros .