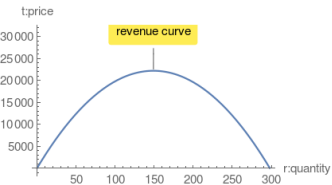


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1r + 298) \times r = 298r - r^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 Euros revenue up to r -intercept coordinate equal to twice the value of vertex of the Parabola:
298

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

149

or the amount 22201. Euros .