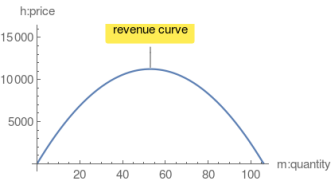


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-4m + 424) \times m = 424m - 4m^2$$

Notice the latter is a quadratic:



(b) Domain starts at 0 Euros revenue up to m-intercept coordinate equal to twice the value of vertex of the Parabola:
106

(d) The maximum occurs at the vertex m-intercept coordinate:
53

or the amount 11236. Euros .