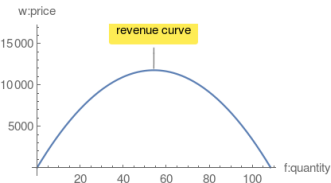


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-4f + 434) \times f = 434f - 4f^2$$

Notice the latter is a quadratic:



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

$$\frac{217}{2}$$

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

$$\frac{217}{4}$$

or the amount 11772.3 Euros .