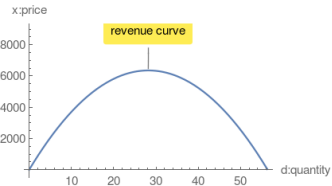


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-8d + 451) \times d = 451d - 8d^2$$

Notice the latter is a quadratic:



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

$$\frac{451}{8}$$

$$\frac{451}{8}$$

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

$$\frac{451}{16}$$

$$\frac{451}{16}$$

or the amount 6356.28 Euros .