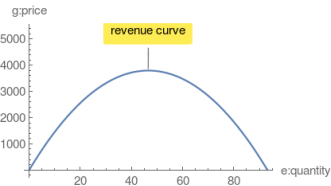


2.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{7}{4}e + 163\right) \times e = 163e - \frac{7e^2}{4}$$

Notice the latter is a quadratic:



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

$$\frac{652}{7}$$

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

$$\frac{326}{7}$$

or the amount 3795.57 Euros .