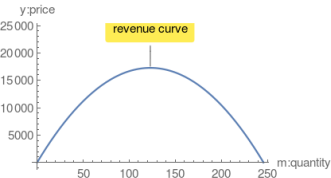


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{8}{7}m + 281\right) \times m = 281m - \frac{8m^2}{7}$$

Notice the latter is a quadratic:



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

$$\frac{1967}{8}$$

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

$$\frac{1967}{16}$$

or the amount 17272.7 Euros .