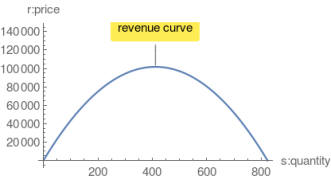


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{5}s + 494\right) \times s = 494s - \frac{3s^2}{5}$$

Notice the latter is a quadratic:



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

$$\frac{2470}{3}$$

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

$$\frac{1235}{3}$$

or the amount 101682. Euros .