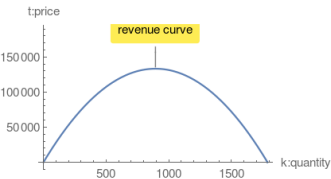


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{6}k + 298\right) \times k = 298k - \frac{k^2}{6}$$

Notice the latter is a quadratic:



(b) Domain starts at 0 Euros revenue up to k-intercept coordinate equal to twice the value of vertex of the Parabola:  
1788

(d) The maximum occurs at the vertex k-intercept coordinate:  
894

or the amount 133206. Euros .