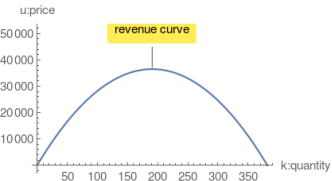


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1k + 382) \times k = 382k - k^2$$

Notice the latter is a quadratic:



(2) Domain starts at 0 Euros revenue up to k-intercept coordinate equal to twice the value of vertex of the Parabola:  
382

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

191  
or the amount 36481. Euros .