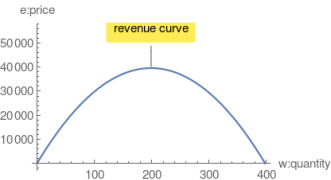


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1w + 398) \times w = 398w - w^2$$

Notice the latter is a quadratic:



(2) Domain starts at 0 Euros revenue up to w-intercept coordinate equal to twice the value of vertex of the Parabola:  
398

(4) The maximum occurs at the vertex w-intercept coordinate:  
199

or the amount 39601. Euros .