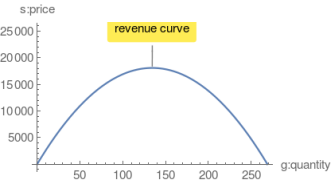


3.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1g + 269) \times g = 269g - g^2$$

Notice the latter is a quadratic:



(2) Domain starts at 0 Euros revenue up to g-intercept coordinate equal to twice the value of vertex of the Parabola:  
269

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

$$\frac{269}{2}$$

or the amount 18090.3 Euros .