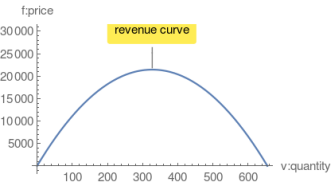


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{5}v + 131\right) \times v = 131v - \frac{v^2}{5}$$

Notice the latter is a quadratic:



(2) Domain starts at 0 Euros revenue up to v-intercept coordinate equal to twice the value of vertex of the Parabola:  
655

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

$\frac{655}{2}$

or the amount 21451.3 Euros .