Revenue = Price $\times$ Ouantity =  $(-1k+177) \times k = 177 k - k^2$ Notice the latter is a quadratic: b:price revenue curve 10000 8000 6000 4000

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

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

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

2000

or the amount 7832.25 Euros .