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1. (1) Basis for the Revenue model is a simple multiplication:
Revenue = Price\timesQuantity = (-\frac{1}{2}W+161) \times W = 161W - \frac{W^2}{2}
Notice the latter is a quadratic:
 q:price
            revenue curve
15000
10000
(2) Domain starts at 0 Euros revenue up to w-intercept coordinate equal to twice the value of vertex of the Parabola:
(4) The maximum occurs at the vertex w-intercept coordinate:
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161

or the amount 12960.5 Euros .