3. (1) Basis for the Revenue model is a simple multiplication: Revenue = Price×Quantity = $(-\frac{3}{2}e+470) \times e = 470e-\frac{3e^2}{2}$ Notice the latter is a quadratic:



or the amount 36816.7 Euros .

(2) Domain starts at 0 Euros revenue up to e-intercept coordinate equal to twice the value of vertex of the Parabola: $\frac{940}{3}$

(4) The maximum occurs at the vertex e-intercept coordinate: $\frac{470}{3}$