Revenue = Price×Quantity = $(-\frac{5}{2}x+306) \times x = 306 \times -\frac{5x^2}{2}$ Notice the latter is a quadratic:



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

(b) Domain starts at 0 RussianRubles revenue up to x-intercept coordinate equal to twice the value of vertex of the Parabola:

(d) The maximum occurs at the vertex x-intercept coordinate:

or the amount 9363.6 RussianRubles .