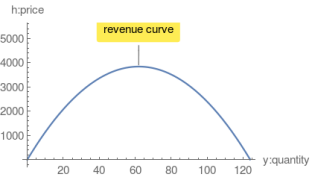


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1y + 124) \times y = 124y - y^2$$

Notice the latter is a quadratic:



(2) Domain starts at 0 RussianRubles revenue up to y-intercept coordinate equal to twice the value of vertex of the Parabola:  
124

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

62

or the amount 3844. RussianRubles .