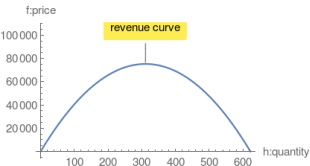


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{7}{9}h + 484\right) \times h = 484h - \frac{7h^2}{9}$$

Notice the latter is a quadratic:



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

$$\frac{4356}{7}$$

(D) The maximum occurs at the vertex h-intercept coordinate:

$$\frac{2178}{7}$$

or the amount 75296.6 RussianRubles .