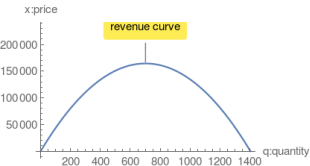


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{3}q + 468\right) \times q = 468q - \frac{q^2}{3}$$

Notice the latter is a quadratic:



(B) Domain starts at 0 RussianRubles revenue up to q-intercept coordinate equal to twice the value of vertex of the Parabola:
1404

(D) The maximum occurs at the vertex q-intercept coordinate:
702

or the amount 164268. RussianRubles .