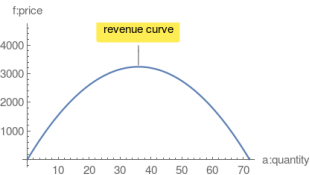


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{5}{2}a + 180\right) \times a = 180a - \frac{5a^2}{2}$$

Notice the latter is a quadratic:



(B) Domain starts at 0 RussianRubles revenue up to a-intercept coordinate equal to twice the value of vertex of the Parabola:
72

(D) The maximum occurs at the vertex a-intercept coordinate:
36
or the amount 3240. RussianRubles .