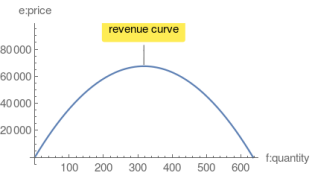


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{2}{3}f + 424\right) \times f = 424f - \frac{2f^2}{3}$$

Notice the latter is a quadratic:



(2) Domain starts at 0 RussianRubles revenue up to f-intercept coordinate equal to twice the value of vertex of the Parabola:
636

(4) The maximum occurs at the vertex f-intercept coordinate:
318

or the amount 67416. RussianRubles .