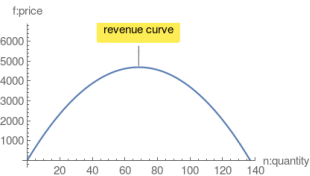


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1n + 137) \times n = 137n - n^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 RussianRubles revenue up to n-intercept coordinate equal to twice the value of vertex of the Parabola:
137

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

$$\frac{137}{2}$$

or the amount 4692.25 RussianRubles .