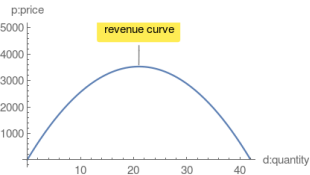


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-8d + 336) \times d = 336d - 8d^2$$

Notice the latter is a quadratic:



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

42

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

21

or the amount 3528. RussianRubles .