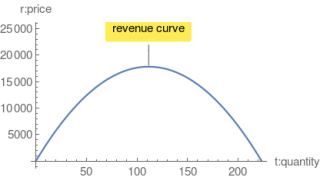


2.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{10}{7}t + 319\right) \times t = 319t - \frac{10t^2}{7}$$

Notice the latter is a quadratic:



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

2233

10

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

2233

20

or the amount 17808.2 USDollars .