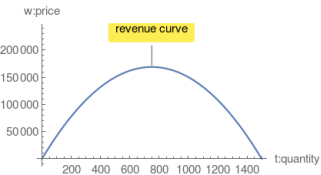


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{10}t + 450\right) \times t = 450t - \frac{3t^2}{10}$$

Notice the latter is a quadratic:



(B) Domain starts at 0 USDollars revenue up to t-intercept coordinate equal to twice the value of vertex of the Parabola:
1500

(D) The maximum occurs at the vertex t-intercept coordinate:
750

or the amount 168750. USDollars .