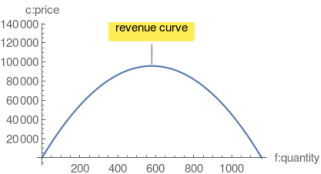


3.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{2}{7}f + 331\right) \times f = 331f - \frac{2f^2}{7}$$

Notice the latter is a quadratic:



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

$$\frac{2317}{2}$$

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

$$\frac{2317}{4}$$

or the amount 95865.9 USDollars .