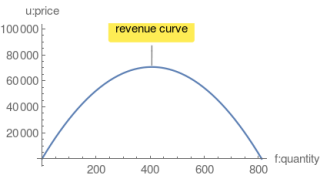


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{7}f + 348\right) \times f = 348f - \frac{3f^2}{7}$$

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:  
812

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

406  
or the amount 70644. USDollars .