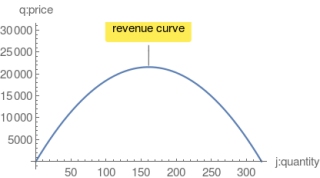


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{5}{6}j + 268\right) \times j = 268j - \frac{5j^2}{6}$$

Notice the latter is a quadratic:



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

$$\frac{1608}{5}$$

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

$$\frac{804}{5}$$

or the amount 21547.2 USDollars .