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

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

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

Revenue = Price×Quantity = $\left(-\frac{1}{2}w+321\right) \times w = 321w - \frac{w^2}{2}$

Notice the latter is a quadratic:

or the amount 51520.5 USDollars .

642

321