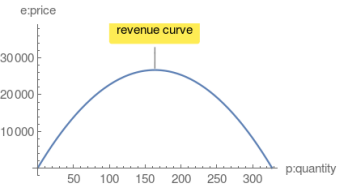


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1p + 327) \times p = 327p - p^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 Yen revenue up to p-intercept coordinate equal to twice the value of vertex of the Parabola:
327

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

$$\frac{327}{2}$$

or the amount 26732.3 Yen .