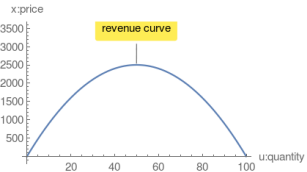


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1u + 100) \times u = 100u - u^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 CanadianDollars revenue up to u-intercept coordinate equal to twice the value of vertex of the Parabola:
100

(D) The maximum occurs at the vertex u-intercept coordinate:
50
or the amount 2500. CanadianDollars .