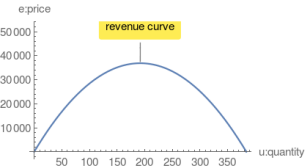


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-1u + 384) \times u = 384u - u^2$$

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:
384

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

192

or the amount 36864. CanadianDollars .