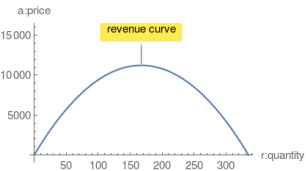


3.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{2}{5}r + 134\right) \times r = 134r - \frac{2r^2}{5}$$

Notice the latter is a quadratic:



(B) Domain starts at 0 CanadianDollars revenue up to r-intercept coordinate equal to twice the value of vertex of the Parabola:
335

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

$$\frac{335}{2}$$

or the amount 11222.5 CanadianDollars .