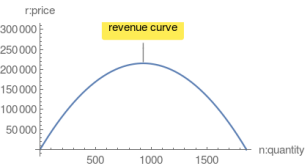


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{1}{4}n + 464\right) \times n = 464n - \frac{n^2}{4}$$

Notice the latter is a quadratic:



(b) Domain starts at 0 CanadianDollars revenue up to n-intercept coordinate equal to twice the value of vertex of the Parabola:  
1856

(d) The maximum occurs at the vertex n-intercept coordinate:  
928

or the amount 215296. CanadianDollars .