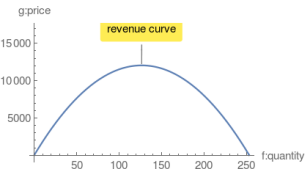


4.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{3}{4}f + 190\right) \times f = 190f - \frac{3f^2}{4}$$

Notice the latter is a quadratic:



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

$$\frac{760}{3}$$

(4) The maximum occurs at the vertex f-intercept coordinate:

$$\frac{380}{3}$$

or the amount 12033.3 CanadianDollars .