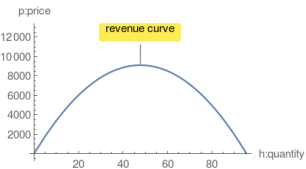


2.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-4h + 382) \times h = 382h - 4h^2$$

Notice the latter is a quadratic:



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

$$\frac{191}{2}$$

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

$$\frac{191}{4}$$

or the amount 9120.25 CanadianDollars .