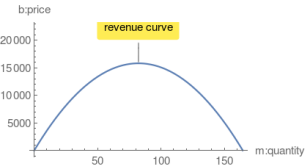


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = \left(-\frac{7}{3}m + 384\right) \times m = 384m - \frac{7m^2}{3}$$

Notice the latter is a quadratic:



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

$$\frac{1152}{7}$$

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

$$\frac{576}{7}$$

or the amount 15798.9 CanadianDollars .