1.

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

Revenue = Price×Quantity = $(-\frac{1}{10}m+308) \times m = 308\,m - \frac{m^2}{10}$

Notice the latter is a quadratic:
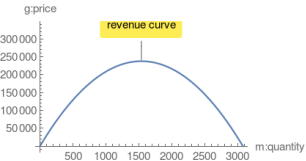
(2) Domain starts at 0 CanadianDollars revenue up to m-intercept coordinate equal to twice the value of vertex of the Parabola:
3080

(4) The maximum occurs at the vertex m-intercept coordinate:
1540
or the amount 237160. CanadianDollars .