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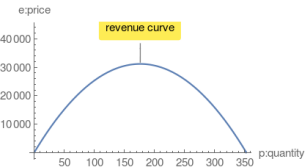
4. (a) Basis for the Revenue model is a simple multiplication:

Revenue = Price×Quantity = $(-1p+353) \times p = 353\,p - p^2$

Notice the latter is a quadratic:

(b) Domain starts at 0 CanadianDollars revenue up to p-intercept coordinate equal to twice the value of vertex of the Parabola: 353

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

$$\frac{353}{2}$$

or the amount 31152.3 CanadianDollars .