Revenue = Price \times Quantity = $(-\frac{1}{2}p+141) \times p = 141 p - \frac{p^2}{2}$ Notice the latter is a quadratic:

yprice
14000
10000
8000
8000
8000

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

282
(d) The maximum occurs at the vertex p-intercept coordinate:

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

4000 2000

(d) The maximum occurs at the vertex p-intercept coordinate:
141
or the amount 9940.5 CanadianDollars .