2.

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

Revenue = Price×Quantity = (−3d+262) × d = 262 d − 3 d^2

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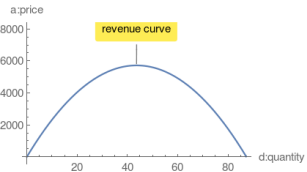
(2) Domain starts at 0 CanadianDollars revenue up to d−intercept coordinate equal to twice the value of vertex of the Parabola:

$\frac{262}{3}$

(4) The maximum occurs at the vertex d−intercept coordinate:

$\frac{131}{3}$

or the amount 5720.33 CanadianDollars .