```
1. (1) Basis for the Revenue model is a simple multiplication:
Revenue = Price×Quantity = (-\frac{4}{2}e+357) \times e = 357 e - \frac{4e^2}{2}
Notice the latter is a quadratic:
35 000
             revenue curve
30 000
25 000
15 000
10000
5000
```

or the amount 23896.7 CanadianDollars .

50 100 150 200 250 exquantity

Domain starts at 0 CanadianDollars revenue up to e-intercept coordinate equal to twice the value of vertex of the Parab

(2) Domain starts at 0 CanadianDollars revenue up to e-intercept coordinate equal to twice the value of vertex of the Parabola: $\frac{1071}{4}$

 $\overline{4}$ (4) The maximum occurs at the vertex e-intercept coordinate:

7) The maximum occurs at the vertex e-intercept coordinate.

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