```
Revenue = Price×Quantity = \left(-\frac{1}{2}b+313\right) \times b = 313b - \frac{b^2}{2}
Notice the latter is a quadratic:
100 000
```

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

939 (D) The maximum occurs at the vertex b-intercept coordinate:

or the amount 73476.8 USDollars .

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