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

Revenue = Price\timesQuantity = (-1b+403) \times b = 403b-b^2
Notice the latter is a quadratic:
 r:price
            revenue curve
50 000
40 000
30 000
20 000
10000
(2) Domain starts at 0 Yen revenue up to b-intercept coordinate equal to twice the value of vertex of the Parabola:
403
```

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

or the amount 40602.3 Yen .