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

Revenue = Price×Quantity = \left(-\frac{1}{g}q + 250\right) \times q = 250 q - \frac{q^2}{g}
Notice the latter is a quadratic:
  k:price
               revenue curve
150 000
100 000
50 000
```

(2) Domain starts at 0 Yen revenue up to q-intercept coordinate equal to twice the value of vertex of the Parabola:

2000

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

1000

or the amount 125000. Yen .