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1. (1) Basis for the Revenue model is a simple multiplication:
Revenue = Price\timesQuantity = (-6c+405) \times c = 405c-6c^2
Notice the latter is a quadratic:
 p:price
10000 -
            revenue curve
8000
6000
4000
2000
(2) Domain starts at 0 Yen revenue up to c-intercept coordinate equal to twice the value of vertex of the Parabola:
```

(4) The maximum occurs at the vertex c-intercept coordinate: $\frac{135}{4}$

or the amount 6834.37 Yen .