```
1. (a) Basis for the Revenue model is a simple multiplication:
Revenue = Price\timesQuantity = (-1y+125) \times y = 125 y - y^2
Notice the latter is a quadratic:
g:price
           revenue curve
4000
1000
(b) Domain starts at 0 Yen revenue up to y-intercept coordinate equal to twice the value of vertex of the Parabola:
125
```

(d) The maximum occurs at the vertex y-intercept coordinate:

or the amount 3906.25 Yen .