Notice the latter is a quadratic: r:price revenue curve 4000 3000

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

Revenue = Price×Quantity = $\left(-\frac{5}{2}y + 200\right) \times y = 200 y - \frac{5y^2}{2}$

(2) Domain starts at 0 RussianRubles revenue up to y-intercept coordinate equal to twice the value of vertex of the Parabola: (4) The maximum occurs at the vertex y-intercept coordinate:

1000

or the amount 4000. RussianRubles .