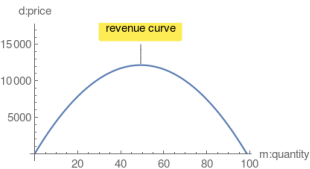


1.

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

$$\text{Revenue} = \text{Price} \times \text{Quantity} = (-5m + 493) \times m = 493m - 5m^2$$

Notice the latter is a quadratic:



(B) Domain starts at 0 RussianRubles revenue up to m-intercept coordinate equal to twice the value of vertex of the Parabola:

$$\frac{493}{5}$$

(D) The maximum occurs at the vertex m-intercept coordinate:

$$\frac{493}{10}$$

or the amount 12152.5 RussianRubles .