Revenue = PricexQuantity = $(-\frac{2}{7}m+146) \times m = 146 \text{ m} - \frac{2 \text{ m}^2}{7}$ Notice the latter is a quadratic:

or the amount 18651.5 USDollars .

25 000

(2) Domain starts at 0 USDollars revenue up to m-intercept coordinate equal to twice the value of vertex of the Parabola: 511

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

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