3.

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

Revenue = Price×Quantity = $(-\frac{3}{4}m+444) \times m = 444\,m - \frac{3\,m^2}{4}$

Notice the latter is a quadratic:
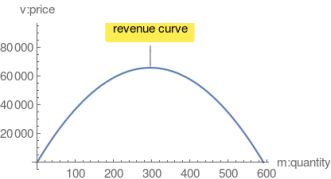
(B) Domain starts at 0 Euros revenue up to m-intercept coordinate equal to twice the value of vertex of the Parabola:
592

(D) The maximum occurs at the vertex m-intercept coordinate:
296

or the amount 65 712. Euros .