Notice the latter is a quadratic:

qprice
120000
100000
40000
40000
20000

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

(D) The maximum occurs at the vertex x-intercept coordinate: $\frac{992}{3}$ or the amount 82005.3 Euros .

1984

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

Revenue = Price×Quantity = $(-\frac{3}{4}x+496) \times x = 496 \times -\frac{3x^2}{4}$