4.

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

Revenue = Price×Quantity = $(-\frac{9}{4}w+232) \times w = 232w - \frac{9w^2}{4}$

Notice the latter is a quadratic:
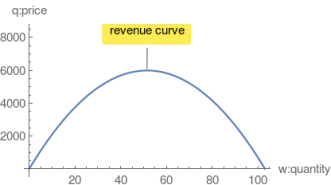
(2) Domain starts at 0 Euros revenue up to w−intercept coordinate equal to twice the value of vertex of the Parabola:

$\frac{928}{9}$

(4) The maximum occurs at the vertex w−intercept coordinate:

$\frac{464}{9}$

or the amount 5980.44 Euros .