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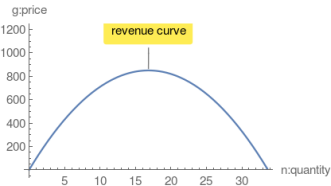
1. (A) Basis for the Revenue model is a simple multiplication:

Revenue = Price×Quantity = $(-3n+101) \times n = 101n - 3n^2$

Notice the latter is a quadratic:

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

$\frac{101}{3}$

(C) The maximum occurs at the vertex n-intercept coordinate:

$\frac{101}{6}$

or the amount 850.08 Euros .