1.

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

Revenue = Price×Quantity = $(-\frac{2}{3}x+136) \times x = 136\,x - \frac{2\,x^2}{3}$

Notice the latter is a quadratic:
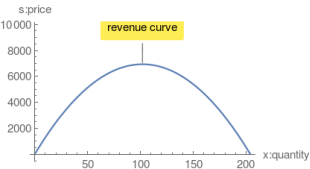
(2) Domain starts at 0 BritishPounds revenue up to x-intercept coordinate equal to twice the value of vertex of the Parabola:
204

(4) The maximum occurs at the vertex x-intercept coordinate:
102

or the amount 6936. BritishPounds .