1.

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

Revenue = Price×Quantity = $(-\frac{3}{2}b+223) \times b = 223\,b - \frac{3\,b^2}{2}$

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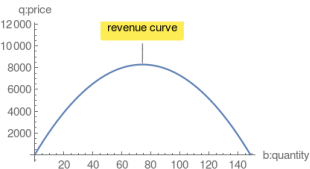
(B) Domain starts at 0 BritishPounds revenue up to b-intercept coordinate equal to twice the value of vertex of the Parabola:

$\frac{446}{3}$

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

$\frac{223}{3}$

or the amount 8288.16 BritishPounds .