1.

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

Revenue = Price×Quantity = $(-\frac{1}{7}q + 140) \times q = 140\,q - \frac{q^2}{7}$

Notice the latter is a quadratic:
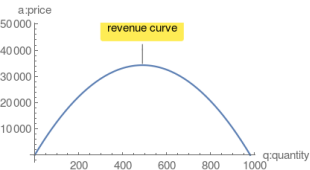
(B) Domain starts at 0 BritishPounds revenue up to q-intercept coordinate equal to twice the value of vertex of the Parabola:
980

(D) The maximum occurs at the vertex q-intercept coordinate:
490
or the amount 34 300. BritishPounds .