Revenue = Price \times 0uantity = $(-3k+137) \times k = 137 k - 3 k^2$ Notice the latter is a quadratic: h:price revenue curve 2000 1500

(2) Domain starts at 0 BritishPounds revenue up to k-intercept coordinate equal to twice the value of vertex of the Parabola:

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

1000 500

or the amount 1564.08 BritishPounds .

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