Revenue = Price \times Quantity = $(-2c+405) \times c = 405c-2c^2$ Notice the latter is a quadratic: a:price 30000 revenue curve 25 000 20 000 15000 10000

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

or the amount 20503.1 BritishPounds .

5000

(d) The maximum occurs at the vertex c-intercept coordinate:

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