# 1.

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

Revenue = Price×Quantity = $(-\frac{5}{4}w+230) \times w = 230w - \frac{5w^2}{4}$

Notice the latter is a quadratic:
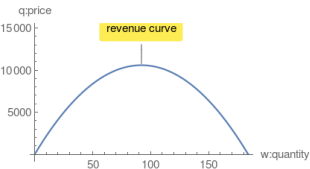


(B) Domain starts at 0 RussianRubles revenue up to w-intercept coordinate equal to twice the value of vertex of the Parabola:
184

(D) The maximum occurs at the vertex w-intercept coordinate:
92
or the amount 10580. RussianRubles .