1.

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

Revenue = Price×Quantity = (−3w+280) × w = $280w - 3w^2$

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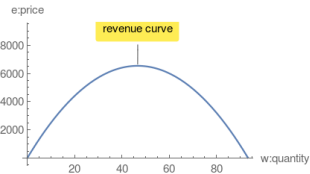
(B) Domain starts at 0 RussianRubles revenue up to w-intercept coordinate equal to twice the value of vertex of the Parabola:

$\frac{280}{3}$

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

$\frac{140}{3}$

or the amount 6533.33 RussianRubles .