Notice the latter is a quadratic:

v:price
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revenue curve
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(2) Domain starts at 0 Yen revenue up to d-intercept coordinate equal to twice the value of vertex of the Parabola:

or the amount 44469.2 Yen .

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

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

Revenue = Price×Quantity =  $\left(-\frac{4}{3}d+487\right) \times d = 487 d - \frac{4 d^2}{3}$ 

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