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

Revenue = Price×Quantity = (-\frac{2}{3}s+181) \times s = 181 s - \frac{2 s^2}{3}
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revenue curve 15000 10000 5000

or the amount $12\,285.4$ USDollars .

Notice the latter is a quadratic:

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

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