Revenue = Price×Quantity = (-1d+171) × d = 171 d - d<sup>2</sup>

Notice the latter is a quadratic:

yprice
10000

revenue curve
8000
4000
2000

(b) Domain starts at 0 Euros revenue up to d-intercept coordinate equal to twice the value of vertex of the Parabola: 171

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

 $rac{171}{2}$  or the amount 7310.25 Euros .

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