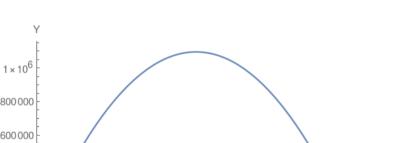
3. (1) When solving for MIN/MAX for a parabola, calculate the vertex:



15000

20000

25000

 $vertex = \frac{-151}{2 \cdot \frac{(-12)}{48^2}} = 14 \cdot 496$

5000

10000

400 000

200 000