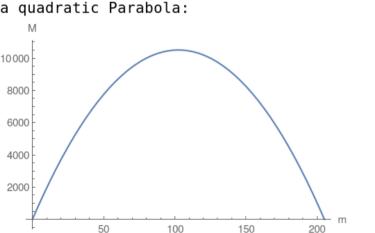
•

3. Perimeter of rectangle =  $2\,(\text{m}+\text{a})\,{=}\,410$  where a is the length of the other edge of rectangle. Area of the rectangle is =  $\text{m}{ imes}\text{a}$ . Use perimeter equation

and solve for  $a=\frac{410-2m}{2}$ Then reformulate the area  $M=m\times a=205\,m-m^2$  which turns out to be a quadratic Parabola:



Compute the vertex  $\frac{410}{4}$  and then plug the vertex into the area which will compute the maximum area.