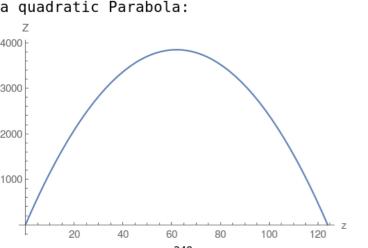
2.

other edge of rectangle. Area of the rectangle is = z imes a.

2. Perimeter of rectangle = 2(z+a)=248 where a is the length of the

and solve for  $a = \frac{248-2z}{2}$ Then reformulate the area  $Z = z \times a = 124 z - z^2$  which turns out to be



Use perimeter equation

Compute the vertex  $\frac{248}{4}$  and then plug the vertex into the area which will compute the maximum area.