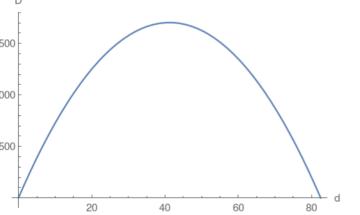
other edge of rectangle. Area of the rectangle is =  $\mathsf{d} imes \mathsf{a}$ .

Use perimeter equation and solve for  $a = \frac{165-2d}{3}$ Then reformulate the area  $D=d\times a=\frac{165\,d}{2}-d^2$  which turns out to be

2. Perimeter of rectangle = 2(d+a)=165 where a is the length of the

a quadratic Parabola: 1500 1000



Compute the vertex  $rac{165}{4}$  and then plug the vertex into the area which will compute the maximum area.