## ACADEMIC TYPE MAX/MIN PROBLEMS.





A rectangle is drawn passing through P and the origin (0, 0)

Find the maximum area of the rectangle.



3. The graph shown is  $y = 6x - x^2$ for  $0 \le x \le 6$ P is the general point (x, y) on the curve

A triangle is drawn passing through P and the origin (0, 0)

Find the maximum area of the triangle.



## **EXCELLENCE ONLY!** 4. The graph shown is $y = (x - b)^2$ for $0 \le x \le b$ P is the general point (x, y) on the curve A rectangle is drawn passing through P and the origin (0, 0)Find the maximum area of the reclangle.

x