Cal Poly Department of Mathematics

Puzzle of the Week

Sep 24 - 30, 2010

Let m, b be positive real numbers. The line $y = mx + b$ intersects the parabola $y = x^2$ in two points, say A and B. Find the point P on the parabola, lying between A and B, such that the triangle ABP has maximal area.

Solutions should be submitted to Morgan Sherman:

Dept. of Mathematics, Cal Poly
Email: sherman1 -AT- calpoly.edu
Office: bldg 25 room 310

before next Friday. Those with correct and complete solutions will have their names listed in next week's email announcement. Anybody is welcome to make a submission.