

# Cal Poly Department of Mathematics

## Puzzle of the Week

Jan 16 - 22, 2009

Three circles in the plane are each tangent to a given line (at distinct points) as well as mutually tangent to each other. Find the radius of the smallest circle as a function of the radii of the other two.

*Solutions should be submitted to Morgan Sherman:*

*Dept. of Mathematics, Cal Poly*

*Email: sherman1 -AT- calpoly.edu*

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*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.*