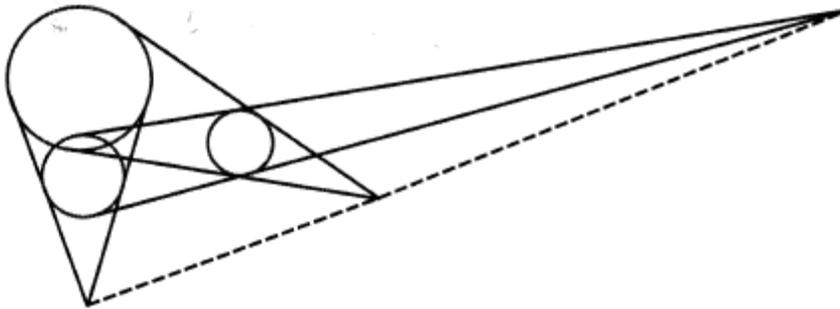


Circle One:    Cadet    Faculty    Student (non USMA)    Faculty (non USMA)    Other

Last Name (Please Print):

Problem 10

The “focus” of two circles of different size is the intersection of two lines, each of which is tangent to both circles, but does not pass between them. Thus three circles of different radii (but none contained completely in another) determine three foci. Prove that the three foci lie on a line.



## **Submission Instructions**

Submit to : [MAJ Jong H. Chung](#)

How : As an attachment to an  
email(please make sure your  
name is in the attachment!)

With the subject line : WP POTW

Failure to follow these directions may result in your submission not  
making into the pile in the right order!