

**MATH 515 HOMEWORK-6 DUE AT THE BEGINNING OF CLASS ON THURSDAY,
NOVEMBER 12**

One goal for this course is for you to develop your skill in effectively communicating mathematics. With this in mind, you should clearly write up your solutions. Solutions with little or no justification will receive little or no credit.

Write a clear, complete solution to the three cities problem: The cities Alphaville, Brookton and Catalina want to link themselves together using optical fiber. Find a network connecting the three cities whose total length is a minimum.

Much of the solution may be found in the work we did in class, problem 22, and pages 171 – 172.