Undergraduate Problem Solving Competition
Problem 5 - Ladder Catastrophe

Due Feb. 26, 2018

Two ladders with lengths A and B are resting in a hallway. The ladders intersect each other at height h from the ground. What is the width of the hallway, w, as a function of A, B, and h?
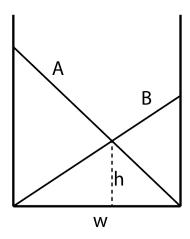

Figure 1: Crossed ladders in an hallway of width w

In the spirit of UPSC, you should not use the internet or look up the solution in a book. Please include your **name, student ID number, and email address** on your solution. Submit answers at the front desk of the T. Benny Rushing Mathematics Center.