

Problem #6 – Wooden Peg



You are given a square board with an area 400 cm. A right triangle with side lengths 6, 8, and 10 cm has been cut out of the center of board.

What is the largest possible radius of a 30 cm long cylindrical peg that can be fit through the triangular hole in the board?

Due date: Friday, Oct. 14th, 2011

Submit to Mr. Streit in person or email your solution. Please place the POW number and your name in the Subject line of your email. If you submit it early you can get feedback and re-submit if it is incorrect.

christian.streit@aas.ru

All work must be shown to explain your solution.