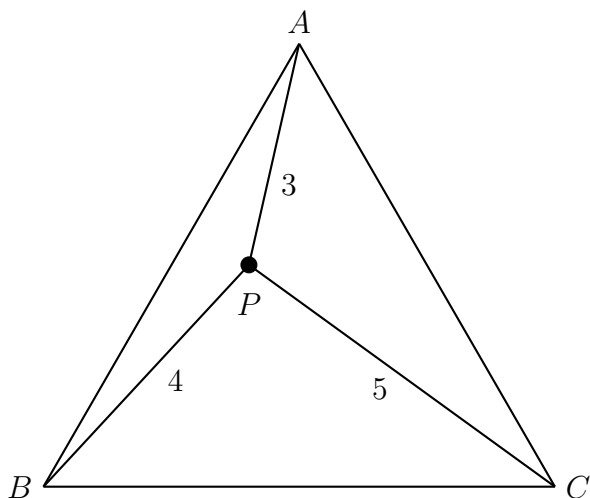


Problem of the Block - Block 3



3-4-5 Triangle



Triangle ABC is equilateral and the point P is in its interior. The distances PA , PB , and PC are 3, 4, and 5 respectively. What is the (exact) length of a side of triangle ABC ?

Turn in solutions to Dr. Bean in Law 206E or by email at sbean@cornellcollege.edu by XXX. Solutions for only one/some questions or partial solutions will receive credit (and are encouraged!). Submitting solutions for the Problem of the Block can earn culture points toward the major in mathematics. For more information about the Problem of the Block, including the current leader board for the yearly competition, and to print off your own copy visit <http://www.cornellcollege.edu/mathematics/problem-of-the-block/index.shtml>.