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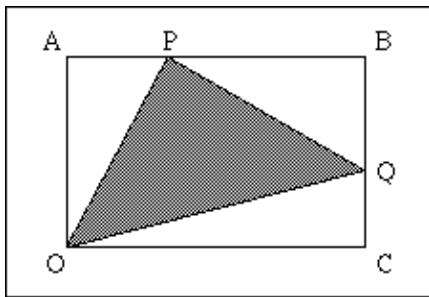
September 1997

Regulars

Rectangle triangle problem



You are given a rectangle $OABC$ from which you remove three right-angled triangles leaving a fourth triangle OPQ as shown in the diagram below.



How must you position the points P and Q so that the area of each of the three *removed* triangles is the same? That is, what are the ratios $AP:PB$ and $CQ:QB$?

Solution



Plus is part of the family of activities in the Millennium Mathematics Project, which also includes the NRICH and MOTIVATE sites.