PROBLEM # 670
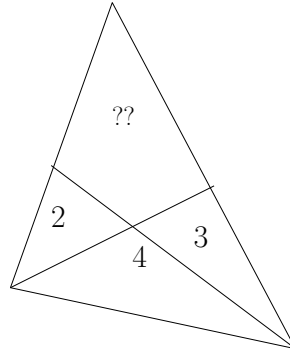
Two straight lines are drawn, each from a vertex of a triangle to the opposite side. This divides the triangle into four pieces: three smaller triangles and one quadrilateral. The areas of the smaller triangle are shown in the figure above. Find the area of the quadrilateral.

The problem of the week can be found online at

http://potw.mth.cmich.edu/

Solutions can be mailed to

chakr2d@cmich.edu

with subject line "POTW 670"