



Problem of the Week

Problem E

Diagonal Distance

Square $ABCD$ has K on BC , L on DC , M on AD , and N on AB such that $KLMN$ forms a rectangle, $\triangle AMN$ and $\triangle LKC$ are congruent isosceles triangles, and also $\triangle MDL$ and $\triangle BNK$ are congruent isosceles triangles. If the total area of the four triangles is 50 cm^2 , what is the length of MK ?

