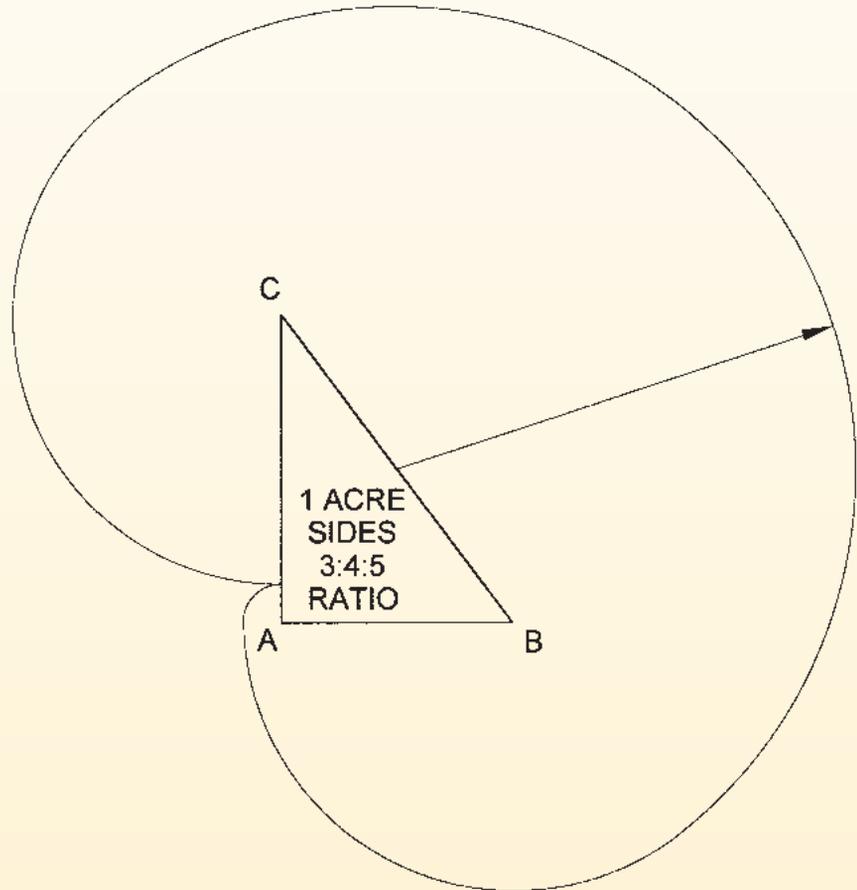


PROBLEM CORNER

Problem 75

The field in Problem 53 got fenced. The goat is now tethered to the midpoint of the fence along the hypotenuse with a rope that is just long enough to reach the same point on side A-C whichever way he goes. How long is the rope? How many acres can the goat graze?



Problem 76

At what latitude(s) in the northern hemisphere is the shadow of a flagpole eight times longer at noon on the shortest day of the year than at noon on the longest day of the year if the maximum declination of the sun is $23^{\circ}28'00''$?



The problems for this column are contributed by retired California surveyor Dave Lindell, LS.

Solutions can be found on our website at www.profsurv.com