UF|IFAS
UNIVERSITY of FLORIDA

TRIG-STAR
Math Competition

TRIG-STAR

Information for Teachers

The University of Florida's Geomatics Extension Program is excited to announce that the **NSPS Trig-Star Competition** is returning to Florida for the 2025-2026 school year. This competition tests students' mathematics and trigonometry skills while introducing them to careers in the surveying and mapping industry, teaching practical, every day applications of math. Surveyors work outdoors, indoors, on land, in the air, and at sea, using the latest technologies, including UAVs (drones), computer mapping equipment, and GPS!

The program offers **cash prizes for statewide winning students and teachers**. State winners are invited to participate in the **National Trig-Star Competition**. Students who compete and go on to pursue a degree in a surveying related field are eligible to apply for the **annual Trig-Star Scholarship**.

To participate, the Geomatics Extension Program will connect schools with local surveyors to provide a classroom presentation about the career, practical applications of trigonometry, and the competition, and will proctor the exam for each school. Teachers who are interested in having their students compete can reach out to geo-extension@ifas.ufl.edu for more information!

ffgs.ifas.ufl.edu/geomatics-extension

Sample Problem

TRIG—STAR PROBLEM   LOCAL CONTEST
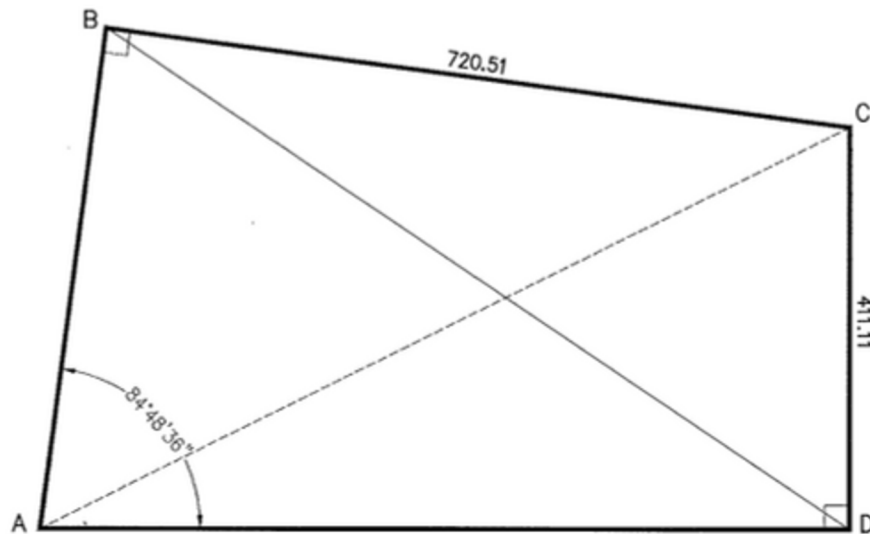
KNOWN: DISTANCE BC = 720.51   DISTANCE CD = 411.11
∡ BAD = 84°48'36"

FIND: DISTANCE AB = _____ (10 POINTS)

DISTANCE AD = _____ (10 POINTS)

DISTANCE AC = _____ (10 POINTS)

REQUIRED ANSWER FORMAT
DISTANCES: NEAREST   HUNDREDTH

PAGE TOTAL: _____ POINTS

COPYRIGHT — NSPS

ffgs.ifas.ufl.edu/geomatics-extension

The University of Florida's Institute of Food and Agricultural Sciences (IFAS) is an Equal Opportunity Institution.