

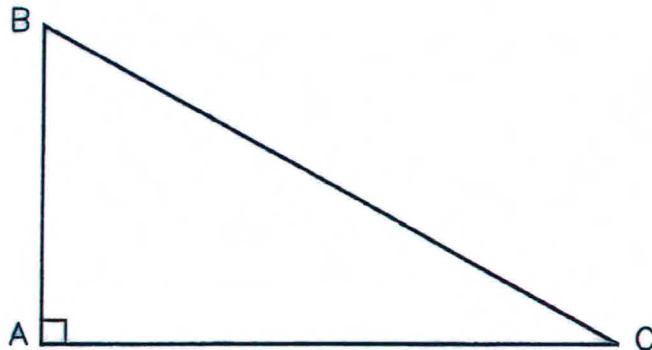


# SAMPLE PROBLEMS

Sponsored by the  
National Society of Professional Surveyors

## TRIG-STAR PROBLEM LOCAL CONTEST

PRINT NAME: \_\_\_\_\_



KNOWN: DISTANCE AC = 381.25      DISTANCE BC = 431.23

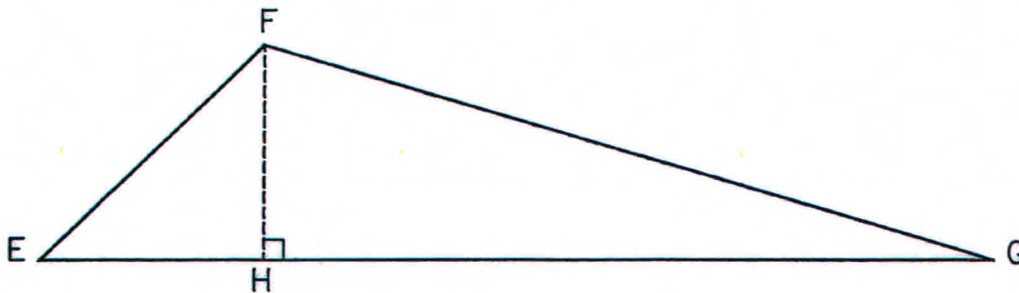
FIND:  $\angle$  ACB = \_\_\_\_\_ (5 POINTS)

DISTANCE AB = \_\_\_\_\_ (5 POINTS)

**REQUIRED ANSWER FORMAT**

DISTANCES: NEAREST HUNDREDTH  
ANGLES: DEGREES-MINUTES-SECONDS  
TO THE NEAREST SECOND

## TRIG-STAR PROBLEM LOCAL CONTEST



KNOWN: DISTANCE EF = 193.31     $\angle$  EFG = 121°31'30"     $\angle$  FEG = 41°50'14"

FIND:  $\angle$  EGF = \_\_\_\_\_ (6 POINTS)

DISTANCE EH = \_\_\_\_\_ (6 POINTS)

DISTANCE FH = \_\_\_\_\_ (6 POINTS)

DISTANCE FG = \_\_\_\_\_ (6 POINTS)

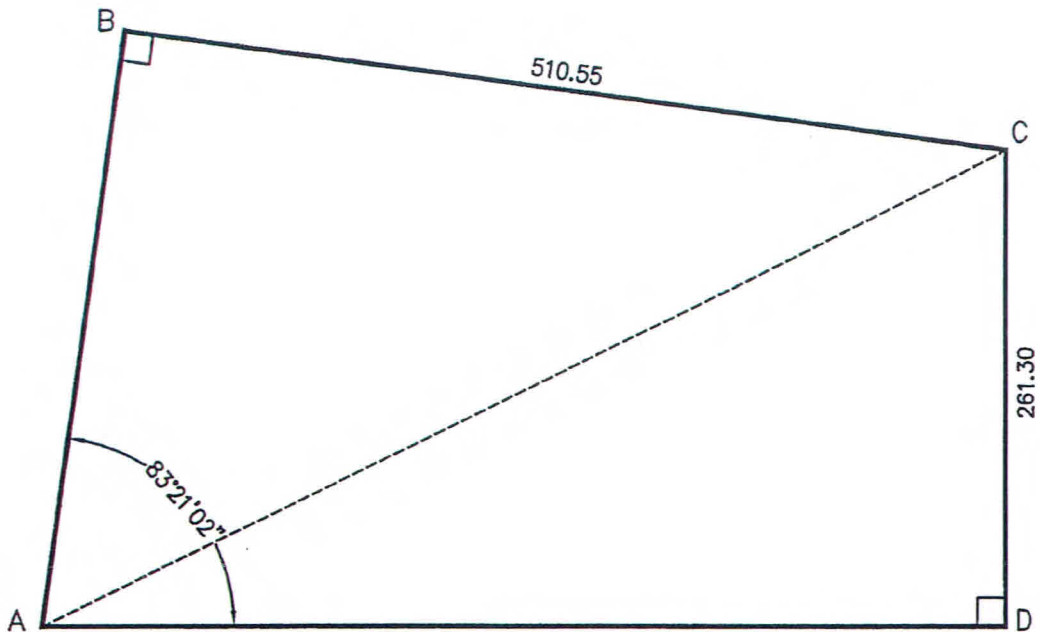
DISTANCE GH = \_\_\_\_\_ (6 POINTS)

**REQUIRED ANSWER FORMAT**

DISTANCES: NEAREST HUNDREDTH  
ANGLES: DEGREES-MINUTES-SECONDS  
TO THE NEAREST SECOND

PAGE TOTAL: \_\_\_\_\_ POINTS

# TRIG-STAR PROBLEM LOCAL CONTEST



KNOWN: DISTANCE BC = 510.55    DISTANCE CD = 261.30  
 $\angle$  BAD = 83°21'02"

FIND: DISTANCE AB = \_\_\_\_\_ (10 POINTS)  
DISTANCE AD = \_\_\_\_\_ (10 POINTS)  
DISTANCE AC = \_\_\_\_\_ (10 POINTS)

**REQUIRED ANSWER FORMAT**  
DISTANCES: NEAREST HUNDREDTH

PAGE TOTAL: \_\_\_\_\_ POINTS

