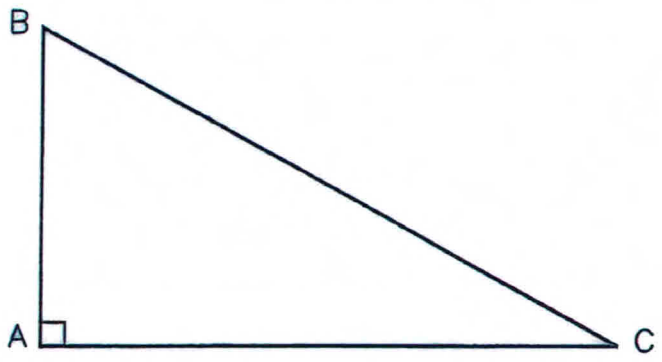
TRIG*STAR

SAMPLE PROBLEMS

Sponsored by the
National Society of Professional Surveyors

TRIG–STAR PROBLEM LOCAL CONTEST

PRINT NAME: _____



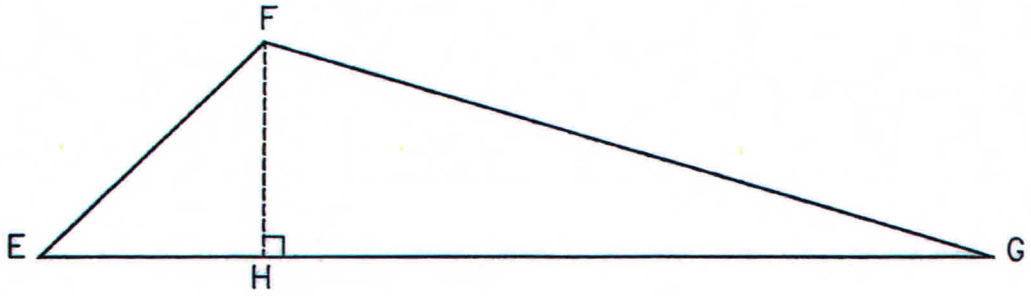
KNOWN: DISTANCE AC = 381.25 DISTANCE BC = 431.23

FIND: ∠ 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 ∠ EFG = 121°31'30" ∠ FEG = 41°50'14"

FIND: ∠ EGF = _____ (6 POINTS)

DISTANCE EH = _____ (6 POINTS)

DISTANCE FH = _____ (6 POINTS)

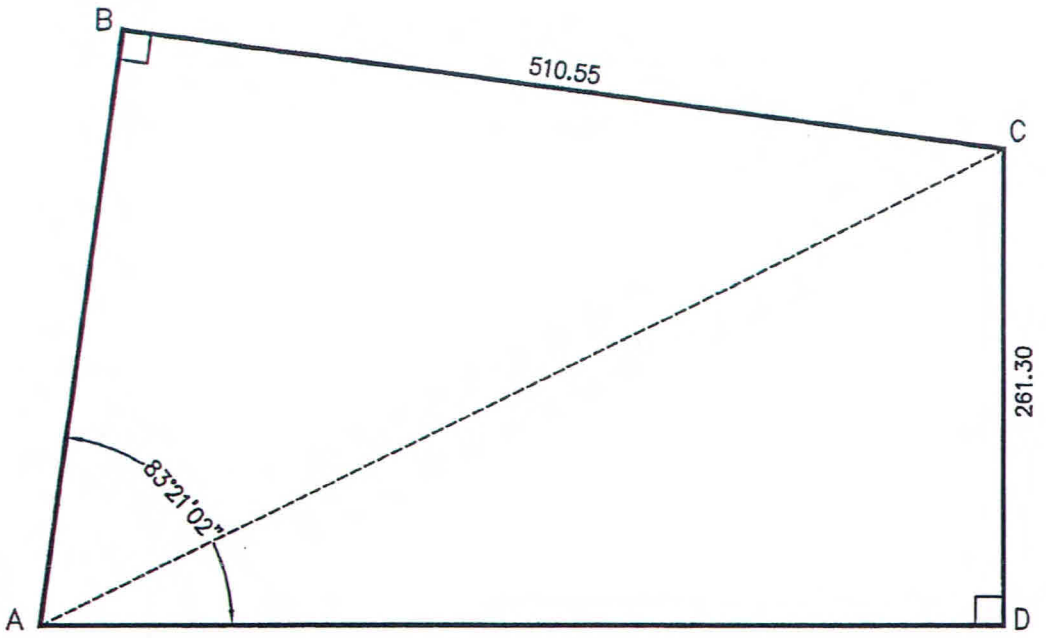
DISTANCE FG = _____ (6 POINTS)

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
$\measuredangle$ 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