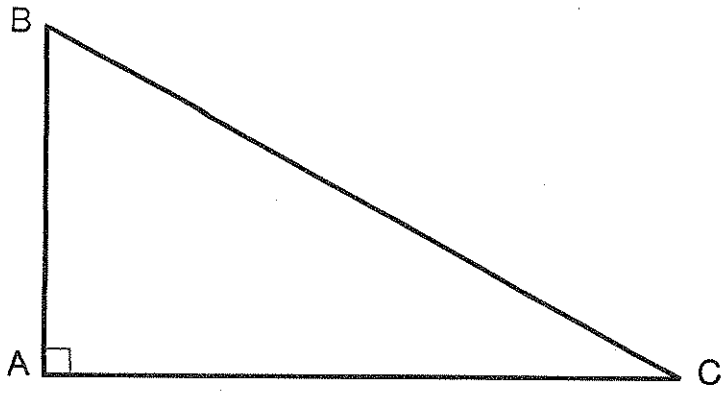
TRIG STAR PKT #2

TRIG-STAR PROBLEM LOCAL CONTEST

Calculator : degree mode
Evidence of work/thinking must be shown for credit.



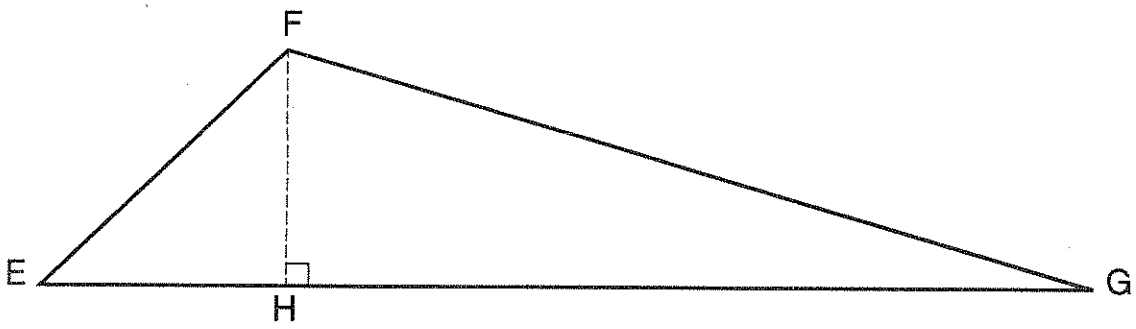
KNOWN: DISTANCE AB = 105.57 DISTANCE BC = 195.95

FIND: $\measuredangle$ CBA = _____ (5 POINTS)

DISTANCE AC = _____ (5 POINTS)

REQUIRED ANSWER FORMAT
DISTANCES: NEAREST HUNDREDTH
ANGLES: DEGREES–MINUTES–SECONDS TO THE NEAREST SECOND

TRIG-STAR PROBLEM LOCAL CONTEST



KNOWN: DISTANCE EF = 470.08 $\measuredangle$ EFG = 121°43'43" $\measuredangle$ FEG = 42°55'52"

FIND: DISTANCE EH = _____ (6 POINTS)

DISTANCE FH = _____ (6 POINTS)

DISTANCE FG = _____ (6 POINTS)

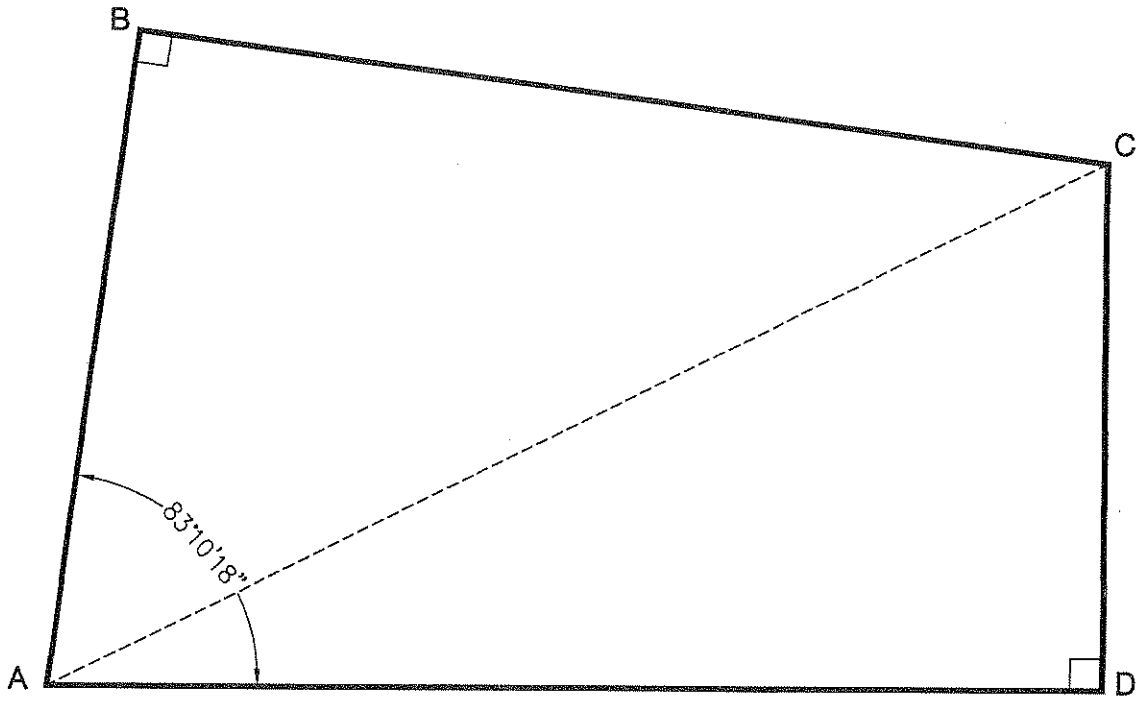
DISTANCE GH = _____ (6 POINTS)

$\measuredangle$ EGF = _____ (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 = 733.41 DISTANCE CD = 387.67
$\measuredangle$ BAD = 83°10'18"

REQUIRED ANSWER FORMAT
DISTANCES: NEAREST HUNDREDTH

FIND: DISTANCE AB = _____ (10 POINTS)

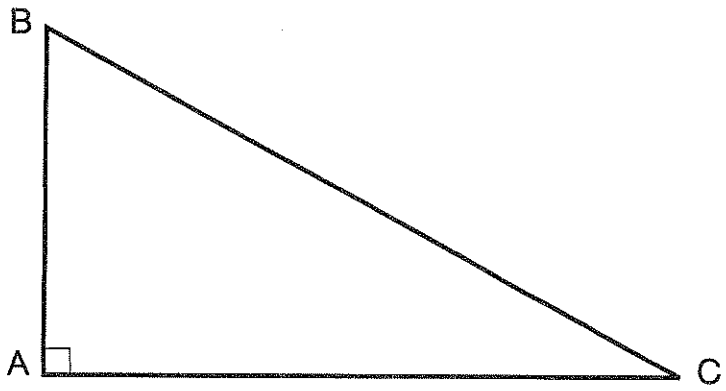
DISTANCE AD = _____ (10 POINTS)

DISTANCE AC = _____ (10 POINTS)

PAGE TOTAL: _____ POINTS

TRIG-STAR PROBLEM LOCAL CONTEST

PRINT NAME: _____



KNOWN: DISTANCE AB = 185.85 DISTANCE BC = 375.75

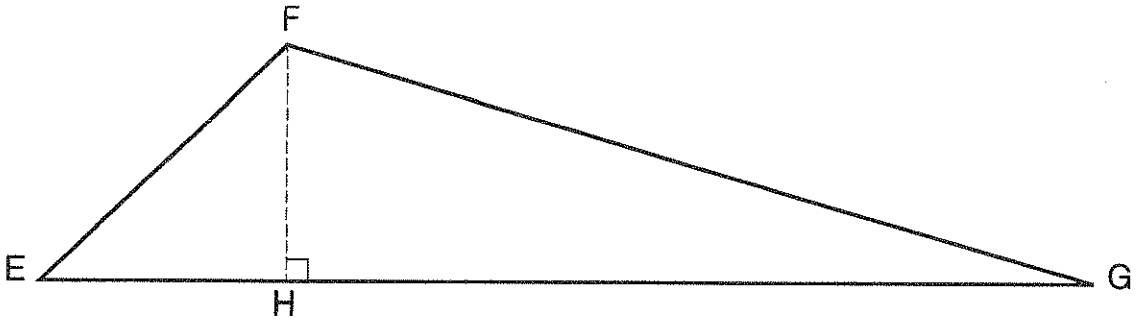
FIND: ∠CBA = _____ (5 POINTS)

DISTANCE AC = _____ (5 POINTS)

REQUIRED ANSWER FORMAT

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

TRIG-STAR PROBLEM LOCAL CONTEST



KNOWN: DISTANCE EF = 180.08 ∠EFG = 122°17'07" ∠FEG = 41°51'52"

FIND: DISTANCE EH = _____ (6 POINTS)

DISTANCE FH = _____ (6 POINTS)

DISTANCE FG = _____ (6 POINTS)

DISTANCE GH = _____ (6 POINTS)

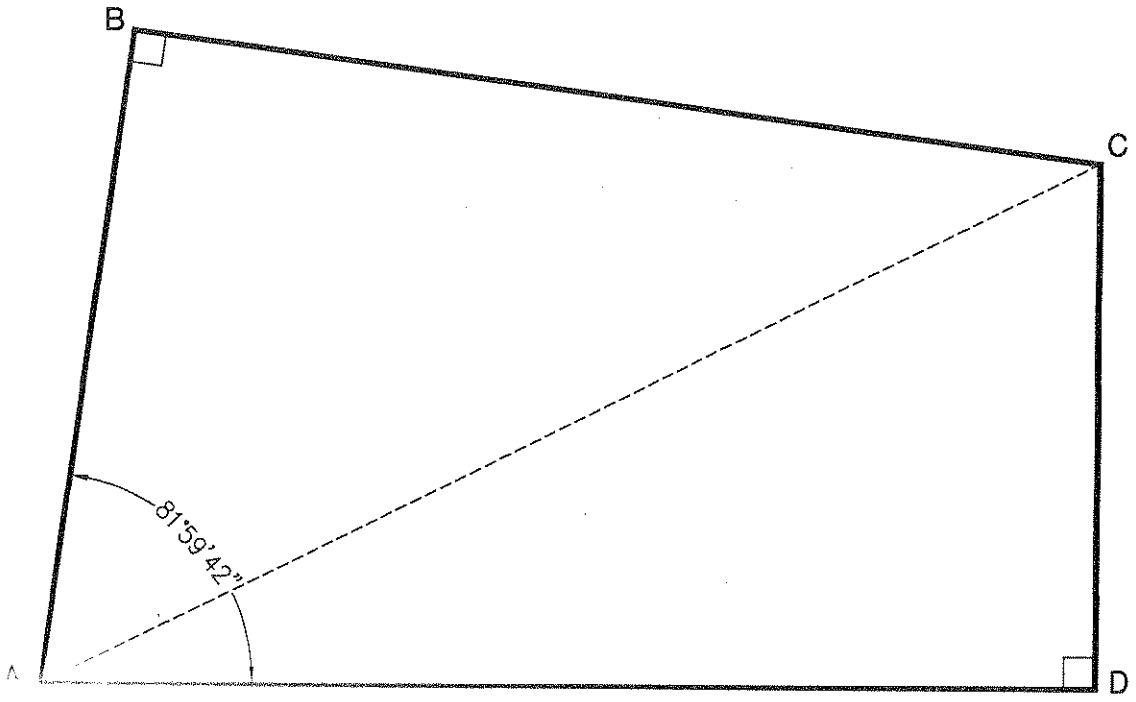
∠EGF = _____ (6 POINTS)

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 = 251.53 DISTANCE CD = 138.98
$\measuredangle$ BAD = 81°59'42"

REQUIRED ANSWER FORMAT
DISTANCES: NEAREST HUNDREDTH

FIND: DISTANCE AB = _____ (10 POINTS)

DISTANCE AD = _____ (10 POINTS)

DISTANCE AC = _____ (10 POINTS)

PAGE TOTAL: _____ POINTS

TRIG-STAR ANSWER KEY LOCAL CONTEST

PAGE 1

∠ CBA =	57°24'03"
DISTANCE AC =	165.08

PAGE 1

DISTANCE EH =	344.18
DISTANCE FH =	320.18
DISTANCE FG =	1210.28
DISTANCE GH =	1167.16
∠ FEG =	15°20'25"

PAGE 2

DISTANCE AB =	478.26
DISTANCE AD =	785.07
DISTANCE AC =	875.57

PAGE 3

DISTANCE BC =	200.00
DISTANCE CD =	210.59
DISTANCE DF =	168.58

TRIG-STAR ANSWER KEY LOCAL CONTEST

PAGE 1

∠ CBA =	60°21'21"
DISTANCE AC =	326.57

PAGE 1

DISTANCE EH =	134.11
DISTANCE FH =	120.18
DISTANCE FG =	440.02
DISTANCE GH =	423.29
∠ EGF =	15°51'01"

PAGE 2

DISTANCE AB =	175.72
DISTANCE AD =	273.55
DISTANCE AC =	306.83

PAGE 3

DISTANCE AB =	282.44
DISTANCE BC =	631.63
DISTANCE CD =	873.81
ARC DISTANCE CE =	705.96