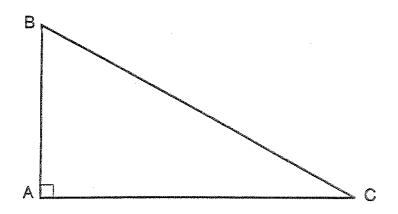
R TRIG-STAR PROBLEM LOCAL CONTEST

PRINT NAME:



KNOWN: DISTANCE AB = 178.20 DISTANCE BC = 373.58

FIND:

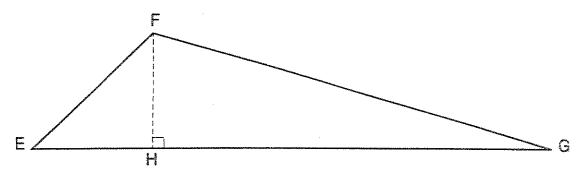
∠ CBA = _____ (5 POINTS)

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 = 188.58

EFG = 121*25'12"

FEG = 41*57'27"

FIND:

∠ EGF = ______(6 POINTS)

DISTANCE EH = _____ (6 POINTS)

DISTANCE FH = ______ (6 POINTS)

DISTANCE FG = ______(6 POINTS)

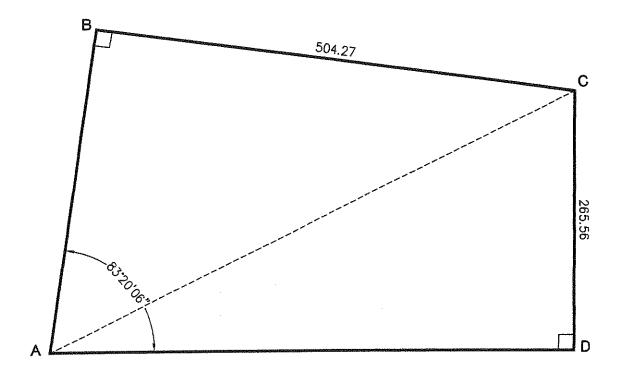
DISTANCE GH = ______(6 POINTS)

REQUIRED ANSWER FORMAT

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

PAGE TOTAL: _____ POINTS





KNOWN: DISTANCE BC = 504.27 DISTANCE CD = 265.56 \angle BAD = $83^{\circ}20'06''$

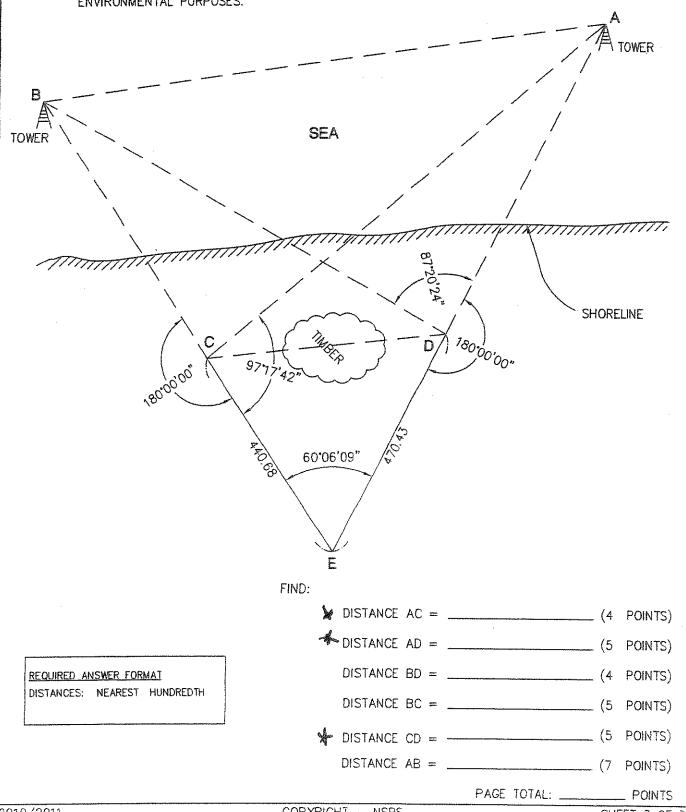
DISTANCE AC = _____ (10 POINTS)

REQUIRED ANSWER FORMAT
DISTANCES: NEAREST HUNDREDTH

PAGE TOTAL: _____ POINTS

TRIG-STAR PROBLEM LOCAL CONTEST

THE GOVERNMENT HAS CONSTRUCTED OFFSHORE COMMUNICATION TOWERS TO HELP MONITOR THE COASTAL WATERS. A FIBER OPTIC CABLE NEEDS TO BE CONNECTED FROM THE POINTS ON LAND TO THE TOWERS FOR INCREASED SECURITY. THIS CABLE WILL ENABLE THE TOWERS TO TRANSMIT MORE INFORMATION QUICKER, FOR SURVEILANCE AND ENVIRONMENTAL PURPOSES.



2010/2011

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SHEET 3 OF 3

TRIG-STAR ANSWER KEY LOCAL CONTEST PAGE 1 \angle CBA = 61°30′36" DISTANCE AC = 328.34PAGE 1 ∡ EGF = 16"37"21" DISTANCE EH = 140.24 DISTANCE FH = | 126.08 DISTANCE FG = | 440.74 |DISTANCE GH = 422.32 PAGE 2 DISTANCE AB = 326.29 DISTANCE AD = 538.73 DISTANCE AC = 600.63 PAGE 3 DISTANCE AC = 994.01 DISTANCE AD = 666.89 DISTANCE BD = 891.07 DISTANCE BC = 586.07 DISTANCE CD = 456.99 DISTANCE AB = 1087.93