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Chris Haslego
President
Cheresources, Inc.

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***Content Based
Chemical Engineering***

SOLUTION OF RIGHT ANGLED and OBLIQUE TRIANGLES

REFERENCES: MARKS' MECHANICAL ENGINEERS HANDBOOK

NOTE: Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost, or incorrect calculations. I format cells requiring entry colored **RED**; calculated values are black.

- 1.) Enter the service or identifier at cell [C6].
- 2.) Find the appropriate case of known angles or lengths vs. unknowns. Entry cells have the font highlighted in **red**.
- 3.) Solutions of "Right Triangles" are found at rows 10...27 and oblique triangles from row 37...55.

Print out using direct Excel commands. This application is provided by Chemical Engineers Resource Website, visit cheresources.com for additional selections.

Print out using direct EXCEL commands.

<<<<<<< Psafety © January 2001, by Don Coffman >>>>>>>

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Consistent with GOOD ENGINEERING PRACTICE, the burden rests with the USER of these spreadsheets to review ALL calculations, and assumptions. The USER IS FULLY RESPONSIBLE for the results or decisions based on calculations.

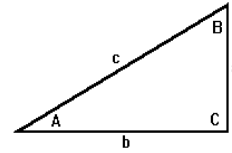
This Spreadsheet Requires MACROS to be ENABLED to ASSURE proper operation. See the Workbook Help Sheet for Additional Instructions on Use.

dmcoffman@aol.com

SOLUTION OF RIGHT ANGLED and OBLIQUE TRIANGLES

- SOLUTION OF RIGHT TRIANGLES -

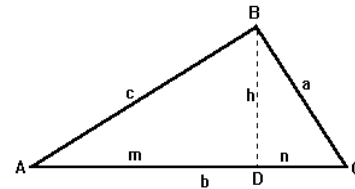
Notes: North Section, CDL2 Bag House Hopper



Known	Required					
	A deg.°	B deg.°	a length	b length	c length	Area calculation
a & b						
a = 6.000 b = 12.867	25.000	65.000			14.197	38.60
a & c						
a = 6.000 c = 14.197	25.000	65.000		12.867		38.60
A & a						
A = 25.000 a = 6.000				12.867	14.197	38.60
A & b						
A = 25.000 b = 12.867			6.000		14.197	38.60
A & c						
A = 25.000 c = 14.197			6.000	12.867		38.60

- SOLUTION OF OBLIQUE TRIANGLES -

Notes: North Section, CDL2 Bag House Hopper



Known	Required								
	A deg.°	B deg.°	C deg.°	a length	b length	c length	m length	n length	Area calculation
A, B, & a									
A = 29.000 B = 81.000 a = 16.000			70.00		32.60	31.012			245.04
height, h = 15.035									
b, c, & A									
b = 32.596 c = 31.012 A = 29.000		81.00	70.00	16.00			27.124	5.472	245.04
height, h = 15.035									
a, c, & A									
a = 16.000 c = 31.012 A = 29.000		81.00	70.00		32.60				245.04
height, h = 15.035									
a, b, & c									
a = 16.000 b = 32.596 c = 31.012	29.00	81.00	70.00				27.124	5.472	245.04
height, h = 15.035									