**INTERCEPT and AZIMUTH by the LAW of COSINES METHOD**

Enter Lat as positive.
If Lat/Dec contrary name
enter Dec as negative.
Convert LHA, Lat, and Dec to
5 place rounded decimal degrees.
Round Zn to whole degrees.

(From above)  
LHA \( \quad \)  
Lat \( \quad \)  
Dec \( \quad \)

(Use for Law of Cosines)  
LHA \( \quad \)  
Lat \( \quad \)  
Dec \( \quad \)

\[ \sin^{-1} \left( \cos \text{LHA} \cdot \cos \text{Lat} \cdot \cos \text{Dec} + \sin \text{Lat} \cdot \sin \text{Dec} \right) = \]  
\[ \cos^{-1} \left( \sin \text{Dec} - \sin \text{Lat} \cdot \sin \text{Hc} \right) / \cos \text{Lat} \cdot \cos \text{Hc} = \]

Hc \( \quad \)  
Zn \( \quad \)

Ho \( \quad \)  
(From above)

a \( \quad \) nm  
T \ Ho > Hc...toward
A \ Hc > Ho...away
PROJECTION ON THE PLANE OF MERIDIAN

DIP SHORT SIGHTS
State units used

HE
DISTANCE

DIP SHORT INTERPOLATION

DIP SHORT ALTERNATE METHOD
Enter d in yards, h in feet

Ds = 0.0002052d + 1146 h/d

SHOW ANY REQUIRED COMPUTATIONS BELOW

INTERCEPT and AZIMUTH by the NAUTICAL ALMANAC SIGHT REDUCTION TABLES

Calculation of Asm Lo and Asm LHA

<table>
<thead>
<tr>
<th>Tot GHA</th>
<th>ASM Lo ( )</th>
<th>ASM LHA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Asm L</th>
<th>N</th>
<th>Asm LHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S</td>
<td></td>
</tr>
</tbody>
</table>

A
B ( )
Z₁ ( )

Dec
N
S

F

A

H

P

Z₂ ( )

corr 1 ( )
(F
P)
corr 2 ( )
(A', Z₂ )

Hc

Z

Ho

a

T Ho > Hc..toward

nm A Hc > Ho..away

Zn

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