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### **Bearings and Azimuths: Step by Step Guide (Surveying ...**

Because bearings and azimuths are encountered in so

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many surveying operations, the comparative summary of their properties given in Table 1 should be helpful. Bearings are readily computed from azimuths by noting the quadrant in which the azimuth falls, then converting as shown in the table.

Table :1 Comparison of Azimuths and Bearings

### **Azimuths and Bearings in**

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**Surveying and their  
Comparison...**

Azimuth Computation  
(Section 7.9) (don't  
worry about bearing  
calcs in 7.10) For a  
closed polygon we  
often wish to  
determine the  
azimuths of line from  
the interior angles.  
Once we verify the sum  
of the interior angles =  
 $180(n-2)$ , we start from  
a known azimuth and  
proceed in a clockwise  
or counterclockwise

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direction around the  
traverse.

**Angle, Azimuths and  
Bearings: Angles**

bearings and azimuths  
but explained well so  
anyone could  
understand it. Very to  
the point and helpful.  
This will come in handy  
for studying purposes.

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And that's what  
compass quadrant  
bearings have - both  
numbers and names!  
Look at the diagram!  
Consider the direction  
in which the green

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arrow is pointing. To get its azimuth, you measure the angle it makes with  $0^\circ$ . That angle is  $103^\circ$  (shown in parentheses). To get its compass quadrant bearing requires three steps.

## **AZIMUTHS AND COMPASS QUADRANT BEARINGS**

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surveying May 16th,  
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you even new to old  
thing "difference  
between azimuth and  
bearing difference 9 /  
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lecture 6: angles and  
directions

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To calculate azimuths  
counter-clockwise  
around a traverse: Add  
the interior angle to  
the back azimuth of  
the preceding line.  
Step-by-step Procedure  
for Calculating  
Directions. The  
following is the step-by-  
step procedure for  
calculating azimuth of  
line BC for the figure

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shown in Steps 1 through 4. Step 1. Plan and prepare. Determine a known azimuth.

### **Fundamentals of Surveying: Calculating the Direction of a ...**

- The bearing is the angle along the horizontal plane, relative to a reference direction defined by the observer.
- For azimuth, the reference

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### Stop Gold

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direction is the North, and the rotation is clockwise while, for the bearing, both reference and the rotation are defined by the observer • While azimuth is a standard measure, bearing is more of a local measure based on the observer.

## **Difference Between Azimuth and Bearing | Compare the ...**

Azimuths to Bearings •

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0°-90°: Bearing equal  
to Azimuth 48°45'25"

= N 48°45'25" E •

90°-180°: Bearing

equal to 180° -

Azimuth 180° -

141°52'29" = S

38°07'31" E •

180°-270°: Bearing

equal to Azimuth -

180° 243°30'06" -

180° = S 63°30'06" W

• 270°-360°: Bearing

equal to 360° -

Azimuth

**Conversions,**

*Page 16/25*



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### **Azimuths: Step ...**

Bearings to Azimuths •

Q1: Azimuth equal to Bearing, just drop "N" & "E"  $N 48^{\circ}45'25'' E = 48^{\circ}45'25''$  • Q2:

Azimuth equal to  $180^{\circ} - \text{Bearing } S 38^{\circ}07'31'' E = 180^{\circ} - 38^{\circ}07'31'' = 141^{\circ}52'29''$  • Q3:

Azimuth equal to  $180^{\circ} + \text{Bearing } S 63^{\circ}30'06'' W = 180^{\circ} + 63^{\circ}30'06'' = 243^{\circ}30'06''$  • Q4: ...

**Conversions,  
bearings to**

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traverse when given  
the interior angles and  
one of the bearings i  
just used the  
counterclockwise  
method to calculate

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Bearings are generally given in one of two formats, an azimuth bearing or a quadrant bearing. An azimuth bearing uses all  $360^\circ$  of a compass to indicate direction. The compass is numbered

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clockwise with north as  
 $0^\circ$ , east  $90^\circ$ , south  
 $180^\circ$ , and west  $270^\circ$ .

So a bearing of  $42^\circ$   
would be northeast and  
a bearing of  $200^\circ$   
would be southwest,  
and so on.

### **How to Get A Bearing with a Compass**

to change grid  
azimuths to magnetic  
azimuths and magnetic  
azimuths to grid  
azimuths (figure C-31).

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Figure C-31. G-M angle : 3. For example, you aim your compass at a distant point. The compass reading you get is 190 degrees, the magnetic azimuth. The diagram on your map (see figure 2) tells you that the G-M angle is 9 degrees, and it also tell ...

### **Land Nav Task 9 - Convert Azimuths (A rmyStudyGuide.com)**

convert the bearings

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shown below to  
azimuths from north,  
and compute the  
angles, smaller than  
180, between  
successive bearings: a)  
N 76-19-48 E. b) S  
22-48-58 E. c) S 18-  
22- 48 W. d) N  
35-29-26 W. note:  
angles are given in the  
order : (degrees-  
minutes-seconds)

**Solved: Convert The Bearings Shown Below To Azimuths**

## Bookmark File PDF Bearings And Azimuths Step By **From ...**

Calculating bearings and azimuths for a traverse when given the interior angles and one of the bearings. I just used the counterclockwise method to calculate...

### **Surveying - Finding Bearings and Azimuths for traverse ...**

In Problem, convert the azimuths from north to bearings, and compute



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the angles, smaller  
than  $180^\circ$  between  
successive azimuths.  
 $65^\circ 26' 37''$ ,  $127^\circ 25' 46''$ ,  
 $254^\circ 23' 07''$ , and  
 $295^\circ 14' 08''$  Step-by-  
step solution:

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