

Day 1: Bearings Intro

Tuesday, April 29, 2014 4:42 PM

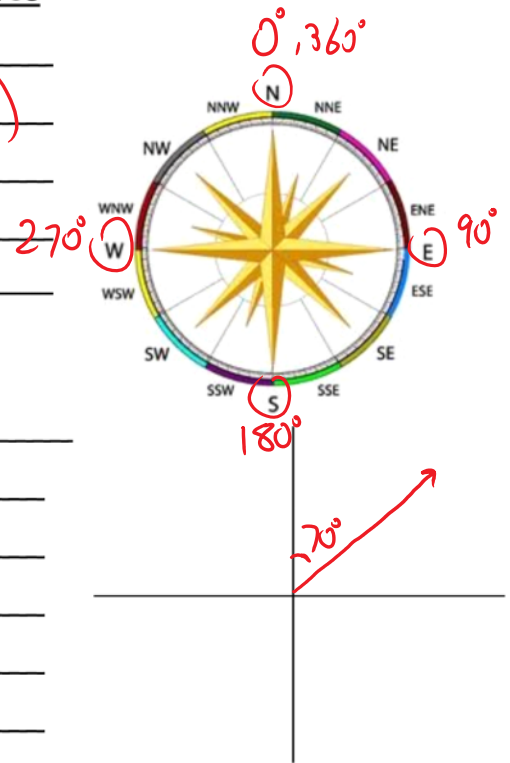
AW Math 11

Day 1: Introduction to Bearings class notes

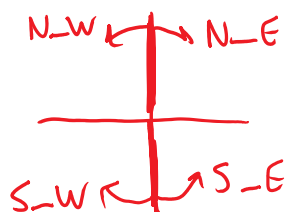
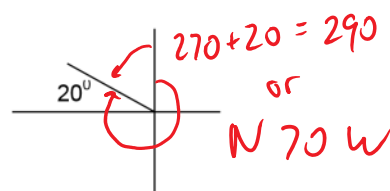
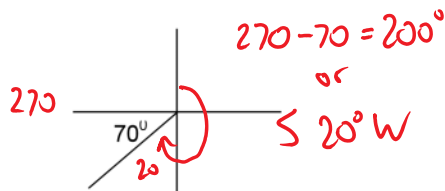
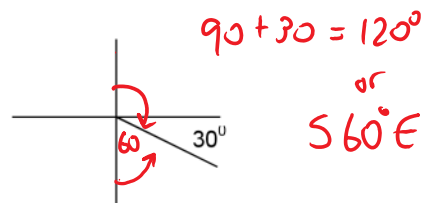
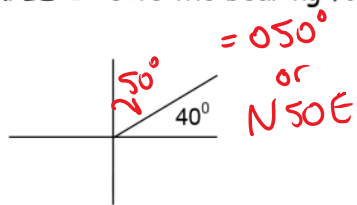
True Bearing (3 digit): 3 digit Reading
N = 0°, Goes clockwise (0-360°)

Cardinal Points: N, E, S, W

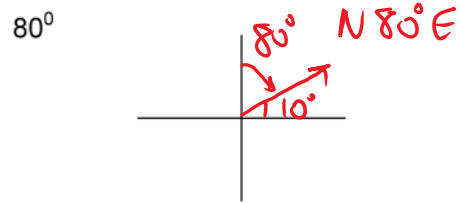
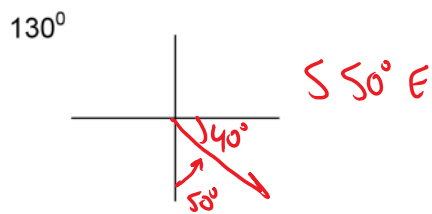
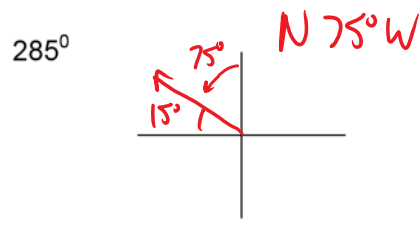
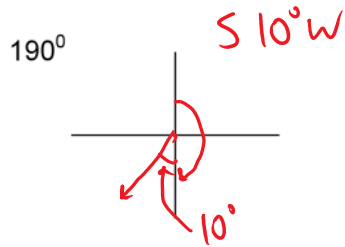
Direction, "DAD": Another way of
stating bearing
 Eg. 070° can be expressed
 as N 70° E
D, A, D



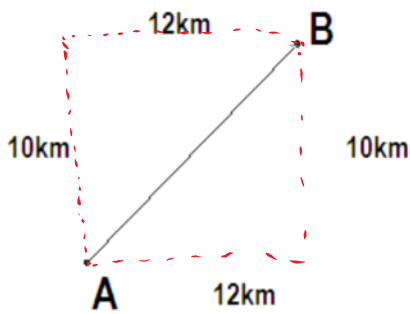
EXAMPLE 1: Give the bearing for the following diagrams.



EXAMPLE 2: Sketch the following bearings. Mark the angles on the diagram.



EXAMPLE 3: Two Point Reference

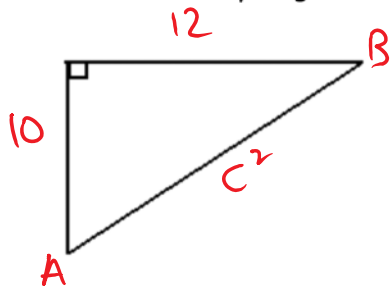


From point A, point B is 10 km North, and 12 km East.

From point B, point A is 10 km South, and 12 km West.

The *major* directions are North and South which come first, followed by the *minor* directions East and West.

Remember - Pythagoras' Theorem, as it might come in handy.



$$A^2 + B^2 = C^2$$

$$10^2 + 12^2 = C^2$$

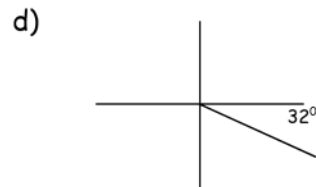
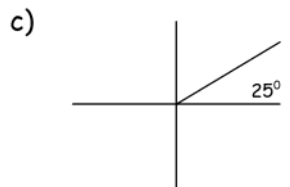
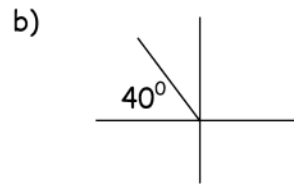
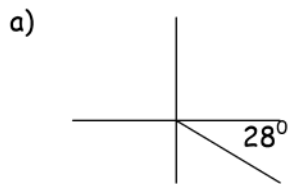
$$\sqrt{244} = C^2$$

$$C = 15.62 \text{ km}$$

Assignment Pg 4-5

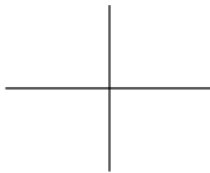
Day 1: Introduction to Bearings assignment

1. Give the following bearings.

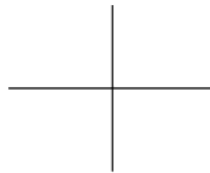


2. Sketch the following bearings. Mark in the angles on the diagram

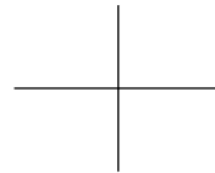
a) 300°



b) 120°



c) 270°



d) 42°



e) 220°

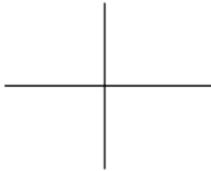


f) 105°

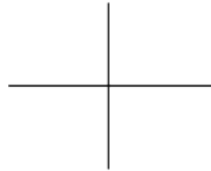


2. Sketch the following bearings. Mark in the angles on the diagram cont'd.

g) 320°



h) 255°



i) 20°



3. Write the bearing in the form NOT given, then sketch.

a) N 75° W	b) N 15° E
c) 348°	d) 005°
e) 250°	f) 085°