

**FOR 274 Assignment 3: Pacing & Compass Skills [20 points]**

This assignment should be completed and handed in at the start of the next lab.

**1. Assuming that you have  $3\frac{1}{2}$  feet in a pace calculate the following horizontal distances to the nearest foot [4 points]:**

- a. A flat distance between A and B of 32 paces?
  
  
  
  
  
  
  
  
  
  
- b. A flat distance between A and B of 27 paces?
  
  
  
  
  
  
  
  
  
  
- c. The horizontal distance between A and B when the distance on a slope of  $30^\circ$  is 11 paces?
  
  
  
  
  
  
  
  
  
  
- d. The horizontal distance between A and B when the distance on a slope of  $60^\circ$  is 39 paces?

**2. If a compass dial in an area of Declination 16W reads  $20^\circ$ , calculate the reading that you would get if your area had a Declination of [3 points]:**

- a. 16 E
  
  
  
  
  
  
  
  
  
  
- b. 21E
  
  
  
  
  
  
  
  
  
  
- c. 9W

3. If a compass dial in an area of Declination 9E reads 15°, calculate the reading that you would get if your area had a Declination of [3 points]:

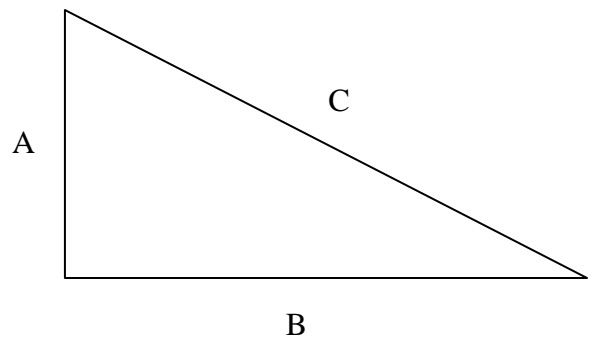
a. 2E

b. 6W

c. 19E

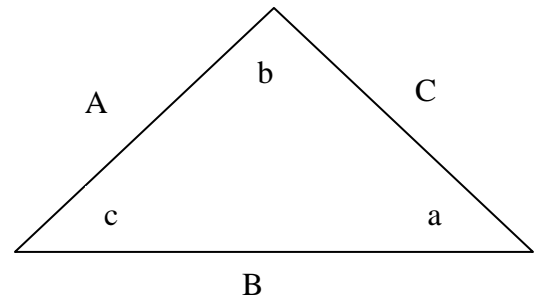
4. Refer to the following figures to complete the following tables:

A	B	C
10	20	
	50	60
10		45
30	60	



[5 points]

a	b	c	A	B	C
60	50		100		
50	100			150	
60		60			50



[5 points]