

**Notes: Trig Day 3**  
**Bearing**

**Bearing** is the number of degrees **clockwise** that an object is heading from due \_\_\_\_\_

1) Draw an object that's moving on a bearing of a)  $40^\circ$  b)  $160^\circ$  c)  $200^\circ$

2) A plane travels 100 miles on a bearing of  $90^\circ$ , and then turns and travels 120 miles on a bearing  $180^\circ$ . Find the bearing from where the plane started to where it ended.

3) The bearing from A to B is  $270^\circ$ , and the bearing from B to C is  $360^\circ$ . The distance from A to C is 10 miles, and the distance from B to C is 3 miles. Find the bearing from A to C.

4) The bearing from A to B is  $180^\circ$ , the bearing from B to C is  $90^\circ$ , and the bearing from A to C is  $140^\circ$ . If  $AB = 4$  km, then  $AC = ?$

5) A boat travels for 42 miles on a bearing of  $125^\circ$ , then turns and travels 15 miles on a bearing of  $215^\circ$ . What's the bearing from where the boat started to where it ended?