Assessment
Map Reading: Resection

Name _____   Date _____

1. What are the two rules used to determine "back azimuth:

2. Put the following steps in proper order so you can do a resection:

_____ Change the gride azimuth to a back azimuth and draw a line from the know
position backwards toward your unknown position.

_____ Measure the magnetic azimuth to the second know position and convert the
magnetic azimuth to a grid azimuth.

_____ The point where the two lines intersect is your location.

_____ Locate a feature or object that is identifiable on both the ground and the map
and mark the map location.

_____ Change the gride azimuth to a back azimuth and draw a line from the second
known position backwards toward your unknown position.

_____ Measure the magnetic azimuth to the second know position and convert the
magnetic azimuth to a grid azimuth.

_____ Locate a second feature or object that is identifiable on both the ground and
the map and mark the map location.

Assessment
Map Reading: Resection

Name _____**KEY**_____   Date _____

1. What are the two rules used to determine "back azimuth:

   Rule 1 -- if the azimuth is more than 180 degrees, the subtract 180 degrees

   Rule 2 -- if the azimth is 180 degrees or less, then add 180 degrees

2. Put the following steps in proper order so you can do a resection:

   __**3**___ Change the gride azimuth to a back azimuth and draw a line from the know
   position backwards toward your unknown position.

   __**2 or 5**__ Measure the magnetic azimuth to the second know position and convert the
   magnetic azimuth to a grid azimuth.

   __**7**___ The point where the two lines intersect is your location.

   __**1**___ Locate a feature or object that is identifiable on both the ground and the map
   and mark the map location.

   __**6**___ Change the gride azimuth to a back azimuth and draw a line from the second
   known position backwards toward your unknown position.

   __**2 or 5**__ Measure the magnetic azimuth to the second know position and convert the
   magnetic azimuth to a grid azimuth.

   __**4**___ Locate a second feature or object that is identifiable on both the ground and
   the map and mark the map location.