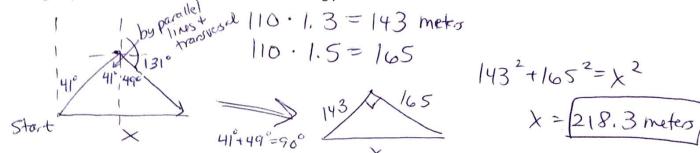
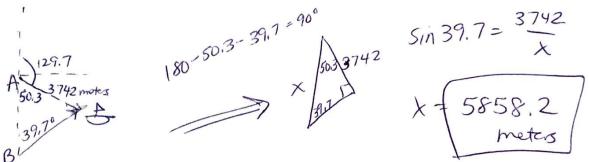
IB Mathematics SL

Section 11.2 Bearing Extra Practice

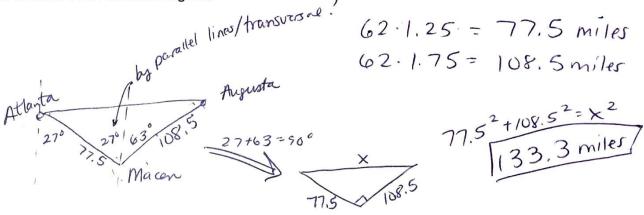
1) A plane flies 1.3 hours at 110 mph on a bearing of 41°. It then turns and flies 1.5 hours at the same speed on a bearing of 131°. How far is the plane from its starting point?



2) Two lighthouses are located on a north-south line. From lighthouse A, the bearing of a ship 3742 m away is 129.7°. From lighthouse B, the bearing of the ship is 39.7. Find the distance between the two lighthouses.



3) The bearing from Atlanta to Macon is S 27° E and the bearing from Macon to Augusta is N 63° E. An automobile traveling at 62 mph needs 1.25 hours to go from Atlanta to Macon and 1.75 hours to go from Macon to Augusta. Find the distance from Atlanta to Augusta.



4) Radio direction finders are set up at two points A and B, which are 2.5 miles apart on an east-west line. From A, it is found that the nearing of a signal from a radio transmitter is N 26.3° E, while from B the bearing of the same signal is N 53.7%. Find the distance of the transmitter from B.

