

37. The bearing from a ship to a buoy 8.7 miles away is 64° . The ship is headed due north, and the navigator plans to change course when the buoy due east of the ship. How much farther will the ship travel before a change of course is needed?

38. The bearing from A to B is 79° . C is due north of A. The bearing from C to B is 90° . Find the bearing from B to A.

39. The bearing from A to B is 44° . The bearing from B to C is 168° . The distance between B and C is 15 km. The bearing from A to C is due east. Find the distance between A and C.

40. The angle of depression from a helicopter to its landing port is 64° . If the altitude of the helicopter is 1600 meters, find the direct distance from the helicopter to the landing port.

Answers

37. 3.814 miles

38. 259°

39. 17.287 km

40. 1780.16 meters