

Ex 5, p.370: A forest ranger at point A sights a fire directly south. A second range at point B, 7.5 miles east, sights the same fire at a bearing of S $27^{\circ} 23'$ W. How far from A is the fire?

Ex 6, p. 371: From an observation tower, two markers are viewed on the ground. The markers and the base of the tower are on a line, and the observer's eye is 65.3 feet above the ground. The angles of depression to the markers are 53.2° and 27.8° . How far is it from one marker to the other?

1) An airplane flies 150 km from an airport in a direction of 120° . How far east of the airport is the plane then?

2) An airplane leaves an airport and travels for 100 miles in a direction of 300° . How far north of the airport is the plane then? How far west?