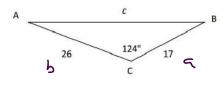


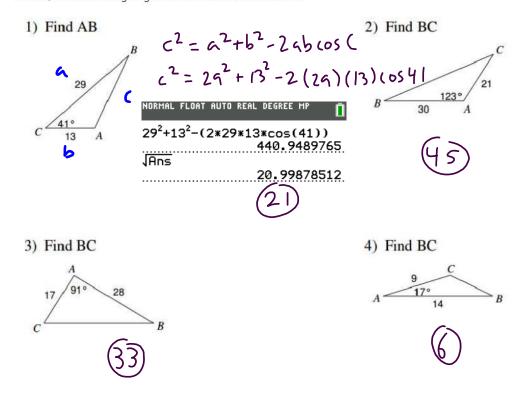
Find the length of the missing side (round to the nearest hundredth)



 $c^{2} = a^{2} + b^{2} - 2 ab cos C$ $c^{2} = (17)^{2} + (26)^{2} - (2(17)(26)cos(124))$ $\sqrt{c^{2}} = \sqrt{1459.326527}$ c = 38.20HORMAL FLOAT AUTO REAL DEGREE MP $(17)^{2} + (26)^{2} - (2*17*26*cos(1))$ 1459.326527 \sqrt{Ans}

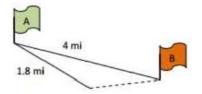
38.20113253

 $a^{2} = b^{2} + c^{2} - 2bc\cos A$ $b^{2} = a^{2} + c^{2} - 2ac\cos B$ $c^{2} = a^{2} + b^{2} - 2ab\cos C$

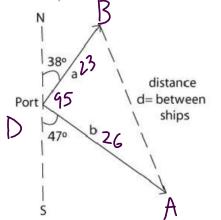


For 1-4, find the missing lengths to the nearest whole number.

5. Mary is orienteering across a large flat plain from Marker A to Marker B which are 4 miles apart. After walking 1.8 miles she realizes she is 6° off-course. To the nearest tenth of a mile, how far from Marker B is she when she realizes her error?



6. Two ships leave port at 4 p.m. One is headed at a bearing of NE 38° and is traveling at 11.5 miles per hour. The other is traveling 13 miles per hour at a bearing of SE 47°. To the nearest mile, how far apart are they when dinner is served at 6 p.m.?



 $d^2 = a^2 + b^2 - 2ab(0595)$ $d^{2} = 23^{2} + 26^{2} - 2(23)(26)(0595)$ $\sqrt{d^{2} = \sqrt{1309}}$ (d = 36 miles)