**RIGHT ANGLE TRIANGLES CHECK-IN – ARE YOU READY TO MOVE ON?**

1. Find the missing sides and angles for each triangle.

 

1. For triangle ABC, draw a sketch and find all missing angles and sides.

A = 53o, a = 3.6 cm, C = 90o

1. Cables stretch from each end of a bridge to 4.5 m column on the bridge, as shown in the diagram below. The angles of elevation from each end of the bridge to the tops of the column are 10o and 14o. What is the length of the bridge?



1. John hikes 2.5 miles due west from Temagami fire tower, then 6 miles due north, as shown in the diagram below.
2. How far is he from the fire tower at the end of the hike?
3. What bearing (direction) should he use to return to the fire tower?



1. Is angle P acute or obtuse? Explain your answer.
2. cos P = 0.46
3. tan P = -1.43
4. sin P = 0.5
5. cos P = -0.5877
6. Determine all possible values for angle G (acute and obtuse).
7. sin G = 0.53
8. cos G = -0.42
9. tan G = 0.14
10. sin G = 0.05