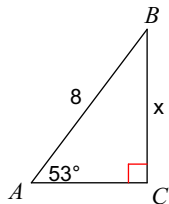


9.2 - 9.5.D2 ~ Solving Right Triangles

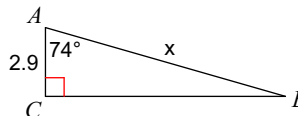
Past due on _____ Period _____

Set up and solve a trigonometric equation to find the length of x . Provide an exact answer - solve for x - and an approximation rounded to the nearest hundredth.

1)

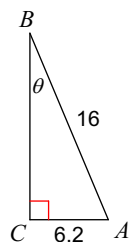


2)

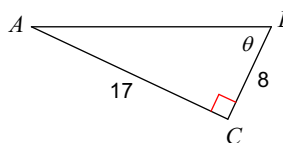


For each right triangle: (a) Use the Pythagorean Theorem to find the length of the third side rounded to the nearest hundredth. (b) Write a trigonometric ratio and use inverse trigonometric functions to find the measure of the indicated angle rounded to the nearest tenth of a degree.

3)

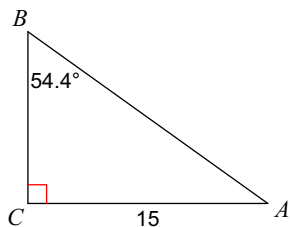


4)

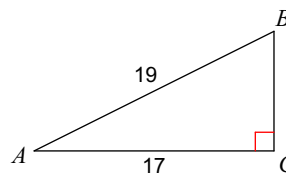


Use the Pythagorean Theorem, trigonometric ratios, inverse trigonometric functions, and/or complementary angle relationships to solve each right triangle. Round angle measures to the nearest tenth of a degree; round side lengths to the nearest hundredth. Please circle your solutions.

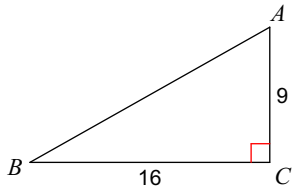
5)



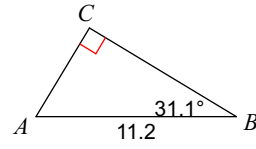
6)



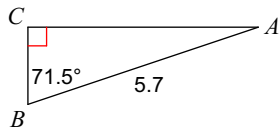
7)



8)



9)



10)

