7.2 Trigonometry short version

Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Solve the triangle. Round lengths to the nearest tenth and angle measures to the nearest degree.

1)	1)
B 4 A	
2) $a = 7$, $c = 12$, $B = 126^{\circ}$	2)
3) $a = 9, b = 6, c = 5$	3)
Solve the problem.4) A painter needs to cover a triangular region 61 meters by 69 meters by 70 meters. A can of paint covers 70 square meters. How many cans will be needed?	4)
Use Heron's formula to find the area of the triangle. Round to the nearest square unit. 5) $a = 5$ meters, $b = 14$ meters, $c = 11$ meters	5)
6) $a = 7$ inches, $b = 10$ inches, $c = 4$ inches	6)
 Solve the problem. 7) Two points, A and B, are on opposite sides of a building. A surveyor chooses a third point, C, 63 yards from B and 92 yards from A, with angle ACB measuring 60.0°. How far apart are A and B to the nearest yard? 	7)
Determine the number of triangles with the given parts. 8) $a = 8$, $b = 4$, $c = 14$	8)
9) $a = 10, b = 5, c = 7$	9)
Solve the triangle. 10) $a = 70, b = 12, C = 105^{\circ}$	10)
11) $a = 7, b = 13, c = 16$	11)

Answer Key Testname: TRIGONOMETRY 7.2 SHORT VERSION

1) A = 104°, B = 47°, C = 29° 2) b = 17.1, A = 19°, C = 35° 3) A = 109°, B = 39°, C = 32° 4) 28 cans 5) 26 square meters 6) 9 square inches 7) 81 yd 8) 0 9) 1 10) c = 74.02, A = 66°, B = 9° 11) A = 25.3°, B = 52.5°, C = 102.2°