Name: _____

HAMILTON-WENHAM REGIONAL HIGH SCHOOL

Excel Project Verification Form

Directions: Solve each triangle. Where appropriate, give angle measures to the nearest tenth of a degree and side lengths in to three decimal places. You MAY NOT use a calculator for this exercise, only the Excel Workbook from your project.

n	Question	Answer	
1	Given a right triangle with the length of leg side a = 5 cm, and the length of leg side b = 11 cm , find the length of the hypotenuse side c and the measures of angles A and B.	A = B = c =	
2	Given a right triangle with the length of leg side a = 10 cm, and the length of the hypotenuse side c = 35 cm , find the length of the leg side b and the measures of angles A and B.	A = B = b =	
3	Given a right triangle with the length of leg side a = 8 cm, and the length of leg side b = 16 cm , find the length of the hypotenuse side c and the measures of angles A and B.	A = B = c =	
4	Given a right triangle with the length of leg side a = 4 cm, and the length of the hypotenuse side c = 18 cm , find the length of the leg side b and the measures of angles A and B.	A = B = b =	
5	Given a right triangle with the length of leg side a = 8 cm, and the length of leg side b = 15 cm , find the length of the hypotenuse side c and the measures of angles A and B.	A = B = c =	
6	Given a right triangle with the length of leg side a = 4 cm, and the length of the hypotenuse side c = 16 cm , find the length of the leg side b and the measures of angles A and B.	A = B = b =	

7	Given a triangle with the length of side a = 25 cm, and the measure of anlge A = 39 degres and the measure of side b = 18 cm, find the length of side c and the measures of angles C and B.	c = C = B =	
8	Given a triangle with the length of side a = 4 cm, and the measure of anlge A = 32 degres and the measure of angle B = 45 degrees, find the length of the side c and the measures of angles C and B.	b = c = C =	
9	Given a triangle with the length of side a = 21 cm, and the measure of anlge A = 27 degres and the measure of side b = 15 cm, find the length of side c and the measures of angles C and B.	c = C = B =	
10	Given a triangle with the length of side a = 4 cm, and the measure of anlge A = 30 degres and the measure of angle B = 46 degrees, find the length of the side c and the measures of angles C and B.	b = c = C =	
11	Given a triangle with the length of side a = 14 cm, and the measure of anlge A = 32 degres and the measure of side b = 6 cm, find the length of side c and the measures of angles C and B.	c = C = B =	
12	Given a triangle with the length of side a = 10 cm, and the measure of anlge A = 35 degres and the measure of angle B = 36 degrees, find the length of the side c and the measures of angles C and B.	b = c = C =	
13	Given a triangle with the length of side a = 24 cm, and the measure of anlge A = 25 degres and the measure of side b = 18 cm, find the length of side c and the measures of angles C and B.	c = C = B =	
14	Given a triangle with the length of side a = 4 cm, and the measure of anlge A = 35 degres and the measure of angle B = 39 degrees, find the length of sides b and c and the measures of angle C.	b = c = C =	

15	A triangle with lengths r = 9, s = 16, and t = 23.	R = S= T=	
16	A triangle with lengths r = 9, s = 8, and t = 7.	R = S= T=	
17	A triangle with lengths r = 8, s = 10, and t = 14.	R = S= T=	
18	Two hikers are following a trail, which at a certain point, separates into two forks. Each hiker takes a different fork. If the fork diverges at an angle of 70 degrees, and each hiker walks at a speed of 2.25 mi/h, how far apart are the hikers after 4 h?		
19	a = 5 cm, b = 16 cm , C = 105 degrees.	A = B = c =	
20	a = 10 cm, b = 15 cm , C = 125 degrees.	A = B = c =	
21	a = 6 cm, b = 14 cm , C = 125 degrees.	A = B = c =	
22	a = 12 cm, b = 11 cm , C = 85 degrees.	A = B = c =	

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