Geometry Online!	Name						
PRACTICE – Right Triangles – Trigonometry – G.8.3		Date	Period				
Find the value of each ratio to ex. sin 35° = .5736	the nearest ten thousandth.						
1. sin 40° =	2. cos 36° =	3. tan 1	15° =				
4. sin 82° =	5. cos 78° =	6. tan 6	63° =				
Find the measure of each angle to the nearest degree. ex. sin A = .7586 49°							
7. sin A = .8365	8. cos B = .3494	9. $\tan C = .8$	3383				
10. sin D = .1334	11. $\cos E = .0634$	12. $\tan F = 4.4$	4533				

Find the trigonometric ratio as a fraction and as a decimal rounded to the nearest ten thousandth.





Geometry Online!	Name		
PRACTICE – Right Triangles – Trigonometry – G.8.3		Date	Period

Find the values of x and y. Round to the nearest tenth.



Solve each problem. Round measures of segments to the nearest hundredth and measures of angles to the nearest degree.

30. A tree **50** feet high casts a shadow **66** feet long. Find the measure of the angle of elevation of the sun.

(II) equation	(III) answer
	(II) equation

31. A balloon on a 30 foot string makes an angle of 50° with the ground. How high above the ground is the balloon if the person holding the balloon is 6 feet tall?



Geometry Online!	Name		
PRACTICE – Right Triangles – Trigonometry – G.8.3		Date	_Period

32. A 30 foot ladder leans against a building making an angle with the ground of 42°. What is the height the ladder reaches up the building?



33. A boat in the water is 300 feet from the base of a lighthouse. The distance to the top of the lighthouse is 700 feet. Find the angle of elevation from the boat to the top of the lighthouse.

(I) sketch (II) equation (III) answer _____

34. An airplane, 50 meters above ground, is attempting to land. The planes angle of depression is 80°. Find the ground length the plane is from landing.

