Name		

TRIGONOMETRY JOURNAL SOLVING OBLIQUE TRIANGLES & VECTORS

1.	. a) The Laws of Sines and Cosines can be used when working with ar	nd					
	triangles.						
	b) Law of Sines equations should be set up with the unknown variable						
2.	a) The ambiguous case of the Law of Sines occurs when the given information forms						
	b) The word "ambiguous" means and the ambigu	ious					
	case of the Law of Sines can formtri	angles.					
	c) You know that no triangle exists when						
	d) Steps for testing for 2 possible triangles:						
	1)						
	2)						
3.	. a) When solving for the missing parts of any triangle, the Law of only need						
٠.	used time, while the Law of may need to be used multip						
	b) When solving a triangle that required the use of the Law of Cosines first, you must next find						
	when you switch to using the Law of Sines.						
4.	a) The two parts of a vector are, which is the or	f the					
	vector and which is expressed as an						
5.	a) When adding two or more vectors together, the vectors are placed						
	b) The sum of two vectors is called the						
	c) Draw a diagram illustrating parts a & b above. Label each vector.						
6.	. The component form of a vector is written as and gives the						
7.	a) Vectors which meet at a right angle are calledv	ectors.					
	b) Parallel vectors occur when two vectors have						
	c) Given Vector 1 $\langle x_1, y_1 \rangle$ and Vector 2 $\langle x_2, y_2 \rangle$, the dot product ic calculated by						
	d) If the dot product of two vectors equals 0, then the vectors are						
8.	. a) Two vectors in a state of equilibrium must form	·					
	b) Three or more vectors in a state of equilibrium form						
9.	. a) When two forces act on an object, the resultant force is the vector which goes from the						
	(start/end) point to the (start/end) point.						
	b) When a 3 rd force is added to two existing forces to create equilibrium, the equilibrium force is t	he					
	vector that goes from the (start/end) point to the (start/end) point						

10. Parametric equations represent th		ne	and	motion of an object in
ter	terms of			
	 1. List the following formulas and operations. a) Write the Law of Sines and <u>list the geometry theorems</u> which determine when it can be used. 			
b)	Write all three versions of the can be used.	e Law of Cosines an	nd <i>list the geomet</i> i	ry theorems which determine when it
c)	Methods for finding the magnetomponents.	nitude and direction	of a vector given	n its horizontal and vertical
d)	Formulas for finding the hori direction.	zontal and vertical o	components of a	vector given its magnitude and
e)	Draw and label the vector dia	ngram for a problem	i involving pushir	ng or pulling an object up a ramp.
f)	Draw and label the coordinat	e system for naviga	tion.	
g)	Draw and label the vector dia conditions. Label with the co	_	-	volving flying an airplane in windy direction.
h)	Parametric formulas for horiz	zontal and vertical c	omponents of a p	projectile