TRIGONOMETRY JOURNAL INVERSE TRIG FUNCTIONS AND TRIG EQUATIONS

1.	a) An inverse trig function represents
	b) When working with inverse trig functions, angles are always expressed in
	c) When working with inverse trig functions, fourth quadrant angles are always expressed as
2.	and are both notations for inverse cosine.
3.	When the inverse trig function is capitalized, this indicates that
	should be used.
4.	When working with inverse trig functions, an example problem that results in an angle as the
	answer is while an example problem that results
	in a value as the answer is
5.	The steps for solving an inverse trig equation are:
	1)
	2)
	3)
6.	What is the solution to an inverse trig equation if after Step 1 above, the following results: $Tan^{-1}x = \frac{2}{3}$
	Why?
7.	When solving trig equations, the two situations that require you to check your answers are
8.	When solving a trig equation, why does your calculator give you the following answers when you ask it to find an angle?
	$\sin x = -\frac{\sqrt{3}}{2} \text{ Answer: } -60^{\circ} \text{ (rather than 300^{\circ})}$
	$\cos x = -\frac{\sqrt{2}}{2} \text{ Answer: } 135^{\circ} \text{ (rather than } 300^{\circ})$
9.	When solving trig equations, you should substitute in identities when you have
	or
10.	(a) If a trig equation contains double angles (or another multiple angle such as 3x or x/2), you
	should solve for angle $2x$ and divide the answers by 2 when the problem has
	(b) In a problem like (a), why can you potentially have 4, 6, 8 or more solutions?
11.	List the Quadrants where the inverse trig functions are defined.