

TRIGONOMETRY JOURNAL
INVERSE TRIG FUNCTIONS AND TRIG EQUATIONS

1. a) An inverse trig function represents _____.
b) When working with inverse trig functions, fourth quadrant angles are always expressed as _____.
c) When working with inverse trig functions, angles are always expressed in _____.
2. Two notations used to indicate inverse sine of x are _____.
3. You know to use the limited quadrants for inverse trig functions, when the inverse trig function is written _____.
4. When working with inverse trig functions, an example of a problem which results in a value as an answer is _____ while an example of a problem which results in an angle as an answer is _____.
5. The steps for solving an inverse trig equation are:
 - 1) _____
 - 2) _____
 - 3) _____
6. When solving trig equations, the two situations that require you to check your answers are _____.
7. When solving a trig equation, why does your calculator give you the following answers when you ask it to find an angle?
 $\tan x = -1$ Answer: -45° _____
 $\cos x = -0.5$ Answer: 120° _____
8. When solving trig equations, you should substitute in an identity when _____ or _____.
9. How do you know whether you should substitute in a double angle identity OR solve for angle $2x$ and divide the answers by 2? _____.
10. List the following.
 - a) Quadrants where inverse trig functions are defined