

8.2 General Solutions of Inverse Values

Name: _____

For each problem find the exact:

- a.) general solution in **radians**
- b.) first three positive values of x

$$1. \quad x = \sin^{-1} \left(\frac{1}{2} \right)$$

$$2. \quad x = \cos^{-1} \left(\frac{\sqrt{3}}{2} \right)$$

$$3. \quad \tan x = (-\sqrt{3})$$

$$4. \quad \sin x = \left(-\frac{1}{\sqrt{2}} \right)$$

$$5. \quad x = \cos^{-1} \left(-\frac{\sqrt{3}}{2} \right)$$

$$6. \quad \cos x = \left(-\frac{\sqrt{2}}{2} \right)$$

$$7. \quad x = \tan^{-1}(-1)$$

$$8. \quad x = \csc^{-1}(-2)$$

$$9. \quad x = \cos^{-1}(0)$$

$$10. \quad \sin x = (-1)$$

$$11. \quad x = \sec^{-1}(-2)$$

$$12. \quad x = \cot^{-1}(\sqrt{3})$$