Student: ______ Instructor: Joe Betters
Course: Pre-Calculus Pre AP (Master Assignment: 7.2 Classwork (Day 1)
Course)

1. Find the exact value of the expression.

$$\cot \left[\sin^{-1} \left(-\frac{\sqrt{2}}{7} \right) \right]$$

Select the correct choice and fill in any answer boxes in your choice below.

- Cot $\left[\sin^{-1}\left(-\frac{\sqrt{2}}{7}\right)\right] =$ ______ (Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression.)
- () B. There is no solution.
- 2. Find the exact value of the expression.

$$\cos^{-1}\left(\sin\frac{7\pi}{6}\right)$$

Select the correct choice and fill in any answer boxes in your choice below.

- O A. $cos^{-1} \left(sin \frac{7\pi}{6} \right) =$ _____ (Simplify your answer. Type an exact answer, using π as needed. Use integers or fractions for any numbers in the expression.)
- () B. There is no solution.
- 3. Write the trigonometric expression as an algebraic expression in u.

$$sec (cos^{-1}u)$$

 $sec(cos^{-1}u) =$ (Type an exact answer, using radicals as needed.)

1. A.
$$\cot \left[\sin^{-1} \left(-\frac{\sqrt{2}}{7} \right) \right] = -\frac{\sqrt{94}}{2}$$

(Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression.)

2. A. $\cos^{-1}\left(\sin\frac{7\pi}{6}\right) = \frac{2\pi}{3}$

(Simplify your answer. Type an exact answer, using π as needed. Use integers or fractions for any numbers in the expression.)

3. <u>1</u>

①
$$\cot \left[\sin^{-1} \left(-\frac{\sqrt{3}}{7} \right) \right]$$

* $\sin \theta = -\frac{\sqrt{3}}{7} = \frac{7}{7}$

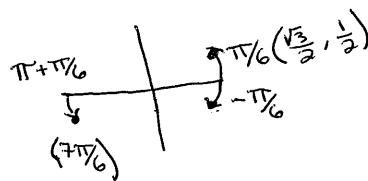
$$\cot \left[\Theta\right] = \frac{x}{y} = \frac{\sqrt{47}}{\sqrt{5}}$$

$$= \sqrt{-\sqrt{94}}$$

X=V47

Xネグラレコ

x2+(-v5)=(7)2



7.2 classwork continued

* let & cos u= 0

C050 = U