Instructor: Fred Khoury

Course: Math 2312-1000 Precalculus (Fall -

Assignment: Quiz Sec 3.5

2015)

Book: Lial: College Algebra and

Trigonometry, 4e

1. Find the exact value of the real number y.

$$y = \sin^{-1}\left(\frac{\sqrt{2}}{2}\right)$$

- $\bigcirc A. \frac{\pi}{3}$
- OB. $\frac{\pi}{4}$
- \bigcirc C. $\frac{2\pi}{3}$
- $\bigcirc D. \quad \frac{3\pi}{4}$

2. Use a calculator to give the value in degrees. Round to the nearest degree.

$$\theta = \sin^{-1}(.2079)$$

- OA. 14°
- OB. 12°
- Oc. 10°
- OD. 15°

3. Use a calculator to give the real number value. Round to eight decimal places.

$$y = arcsec (2.8842912)$$

- OA. 1.51398220
- OB. 1.21673970
- OC. 0.35405662
- OD. 0.69714051

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4. Use a calculator to give the real number value. Round to eight decimal places.

$$y = \cot^{-1}(2.5181552)$$

- OA. 0.37801780
- OB. 21.65882400
- OC. 68.34117600
- OD. 1.19277850

5. Evaluate the expression.

$$\sin\left(\sin^{-1}\left(\frac{3}{5}\right) + \tan^{-1}(-2)\right)$$

- $\bigcirc A. \quad -\frac{\sqrt{5}}{5}$
- $\bigcirc B. \quad \frac{\sqrt{5}}{5}$
- Oc. $\frac{2\sqrt{5}}{25}$
- OD. $-\frac{2\sqrt{5}}{25}$

Write the following as an algebraic expression in u, u > 0.

cos (arcsin (u))

- $\bigcirc A. \quad \frac{\sqrt{u^2 + 1}}{u}$
- OB. $\sqrt{u^2+1}$
- \bigcirc C. $\sqrt{u^2-1}$
- $\bigcirc D.$ $\sqrt{1-u^2}$

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7. Write the following as an algebraic expression in u, u > 0.

$$\tan\left(\cos^{-1}\frac{u}{2}\right)$$

$$\bigcirc A. \quad u^2 \sqrt{4}$$

OB.
$$u\sqrt{4-u^2}$$

 $4-u^2$

$$\bigcirc C. \quad \underline{\sqrt{u^2 - 4}}$$

8. Write the following as an algebraic expression in u, u > 0.

$$\tan\left(\arcsin\frac{\sqrt{u^2+4}}{u}\right)$$

OD.
$$\frac{\sqrt{u^2 + 2}}{u^2 + 2}$$

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9. Write the following as an algebraic expression in u, u > 0.

$$sin \left(arcsec \frac{\sqrt{u^2 + 9}}{u}\right)$$

- \bigcirc A. $u\sqrt{3}$
- $\begin{array}{c}
 C. & \sqrt{u^2 + 3} \\
 \hline
 u^2 + 3
 \end{array}$
- OD. $\frac{3\sqrt{u^2+9}}{u^2+9}$