

2.4 Inverse Trig. Functions

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

$$2. \cos^{-1}\left(-\frac{\sqrt{2}}{2}\right) = \frac{3\pi}{4}$$

$$3. \tan^{-1}\left(-\frac{\sqrt{3}}{3}\right) = -\frac{\pi}{6}$$

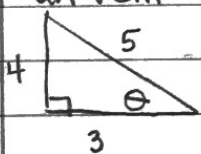
$$4. \tan^{-1}\left(\tan \frac{\pi}{6}\right) = \frac{\pi}{6}$$

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

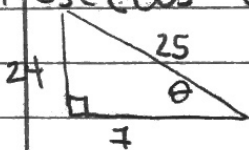
$$* 6. \cos^{-1}(-0.92761) \approx 2.75876 \text{ rad. or } 158.06527^\circ$$

$$7. \sin^{-1}(1.23456) \text{ not in domain } (\sin \theta \leq 1)$$

$$8. \tan\left(\sin^{-1}\left(\frac{4}{5}\right)\right) = \frac{4}{3}$$



$$9. \csc\left(\cos^{-1}\left(\frac{7}{25}\right)\right) = \frac{25}{24}$$



$$10. \sin\left(\tan^{-1}\frac{22}{5}\right) = \frac{12}{13}$$

