

Draw triangles and evaluate. Give fraction answers in simplest form, and angle measures in both degrees and radians. No calculators.

$$1. \tan^{-1}\left(\cot\frac{5\pi}{4}\right) \quad 2. \cos^{-1}(\sin 240^\circ) \quad 3. \cot\left(\cos^{-1}\frac{8}{17}\right)$$

$$4. \csc\left(\tan^{-1}\frac{1}{2}\right) \quad 5. \sec\left(\sin^{-1}\left(\frac{-1}{4}\right)\right)$$

Draw triangles and find all possible values, in radians. No calculators.

$$6. \sin^{-1}\left(\frac{-\sqrt{2}}{2}\right) \quad 7. \cos^{-1}\frac{1}{2}$$

Use a calculator to solve for θ over the given interval. Round to the nearest tenth of a degree.

$$8. \sin \theta = -0.35, 180^\circ < \theta < 270^\circ \quad 9. \cos \theta = 0.43, 270^\circ < \theta < 360^\circ$$

$$10. \tan \theta = -2.1, 90^\circ < \theta < 180^\circ$$

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