

Evaluate

Use sum or difference identities to determine the exact value of each trigonometric expression.

$$1) \frac{\tan \frac{35\pi}{18} - \tan \frac{\pi}{9}}{1 + \tan \frac{35\pi}{18} \tan \frac{\pi}{9}}$$

$$2) \cos 221^\circ \cos 94^\circ - \sin 221^\circ \sin 94^\circ$$

$$3) \sin 22^\circ \cos 8^\circ + \cos 22^\circ \sin 8^\circ$$

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$$5) \cos \frac{28\pi}{15} \cos \frac{31\pi}{30} + \sin \frac{28\pi}{15} \sin \frac{31\pi}{30}$$

$$6) \sin 73^\circ \cos 73^\circ - \cos 73^\circ \sin 73^\circ$$