

## Evaluate

Evaluate each expression using allied angles.

$$1) \quad \sin 480^\circ \sin 780^\circ - \cos 270^\circ \cos 330^\circ \qquad 2) \quad \frac{\sec \frac{17\pi}{4}}{\cos \frac{17\pi}{6}} + \frac{\tan\left(-\frac{14\pi}{3}\right)}{\sin \frac{16\pi}{3}}$$

$$3) \quad 7 \sin \frac{7\pi}{3} \csc \frac{7\pi}{3} - \cos(-495^\circ) \tan 150^\circ$$

$$5) \quad \frac{\csc^2 570^\circ}{\cot^3 675^\circ} + \tan \frac{19\pi}{4} - \tan \frac{23\pi}{6}$$

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