

Evaluate

Evaluate each expression using allied angles.

1) $\cot \frac{21\pi}{4} \sec \frac{37\pi}{6}$

2) $12 \cos^2 1035^\circ \cot^2 630^\circ$

3) $\frac{\cos 330^\circ \cos 210^\circ}{3 \sin 240^\circ \tan 30^\circ}$

$2 \sec^2 \frac{11\pi}{4}$

5) $3 + \sin \frac{9\pi}{4} - \sec 30^\circ$

$\frac{945^\circ}{90^\circ} - \csc 390^\circ$

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