

Evaluate - Trigonometric Ratios

Evaluate each expression.

1) $\sin^2 30^\circ - 4 \cos 0^\circ \sec^3 60^\circ$

2)
$$\frac{\tan \frac{\pi}{4} + \sin \frac{\pi}{6} - \sec \frac{\pi}{4}}{\cot \frac{\pi}{6} \sec \frac{\pi}{3}}$$

3)
$$\frac{\sec^2 45^\circ}{\cot^2 45^\circ + \tan^2 45^\circ}$$

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5) $\csc^2 \frac{\pi}{4} \cot^3 \frac{\pi}{4}$

$\sin 90^\circ \tan 45^\circ \sec 0^\circ$

$\frac{\cos 30^\circ}{\csc 90^\circ}$