

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

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

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

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

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

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

5)  $\csc^2 \frac{\pi}{4} \cot^3 \frac{\pi}{6}$

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

$-\frac{127}{4}$

$-\frac{2\sqrt{6}}{2}$

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$\frac{11}{4}$

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$$\frac{8\sqrt{3} + 189}{36}$$

$$\frac{2\sqrt{3} + 3}{16}$$