

Evaluate - Trigonometric Ratios

Evaluate each expression.

1) $\tan^3 \frac{\pi}{3} \cos^2 \frac{\pi}{4} \sec^2 \frac{\pi}{4} \sin^2 \frac{\pi}{2}$

2) $\frac{1 + 3 \cot 60^\circ}{\sin 45^\circ + \cos 90^\circ}$

3) $\frac{\csc^3 90^\circ}{\cos^3 0^\circ - \sin^3 0^\circ}$

$\frac{\sec \frac{\pi}{3} + \tan \frac{\pi}{4}}{\csc \frac{\pi}{3} + \cot \frac{\pi}{4}}$

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5) $\cos 60^\circ + \sin 0^\circ$

$\sec 0^\circ$

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Evaluate each expression.

1) $\tan^3 \frac{\pi}{3} \cos^2 \frac{\pi}{4} \sec^2 \frac{\pi}{4} \sin^2 \frac{\pi}{2}$

2) $\frac{1 + 3 \cot 60^\circ}{\sin 45^\circ + \cos 90^\circ}$

 $3\sqrt{3}$ $\sqrt{6}$

3) $\frac{\csc^3 9^\circ}{\cos^3 0^\circ - \sin^3 0^\circ}$

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$$\frac{\csc \frac{\pi}{3} + \cot \frac{\pi}{4}}{\sec \frac{\pi}{3} + \tan \frac{\pi}{4}}$$

 2 2

5) $\cos 60^\circ + \sin 30^\circ$

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$$\frac{\sec 0^\circ}{\csc 0^\circ}$$

$$\frac{3 + \sqrt{6}}{2}$$

$$\sqrt{3} - 1$$