

Evaluate

Evaluate each expression.

$$1) \frac{\sin^2 0^\circ}{\cot^3 45^\circ} + \frac{\tan^2 45^\circ}{\csc^3 30^\circ} - \sec^3 0^\circ$$

$$2) \frac{3\left(\csc \frac{\pi}{4} - \sec \frac{\pi}{6}\right)}{\tan \frac{\pi}{3} \sin \frac{\pi}{2} \cos \frac{\pi}{4}}$$

$$3) \sec^2 \frac{\pi}{4} - \cot^2 \frac{\pi}{4}$$

$$4) \cos 0^\circ \sec^3 60^\circ$$

$$5) \frac{\cot 30^\circ}{5 - \sin 30^\circ} +$$

$$\frac{\tan \frac{\pi}{6} - \sec \frac{\pi}{4}}{\sec \frac{\pi}{3}}$$

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1) $\frac{\sin^2 0^\circ}{\cot^3 45^\circ} + \frac{\tan^2 45^\circ}{\csc^3 30^\circ} - \sec^3 0^\circ$

2) $\frac{3\left(\csc \frac{\pi}{4} - \sec \frac{\pi}{6}\right)}{\tan \frac{\pi}{3} \sin \frac{\pi}{2} \cos \frac{\pi}{4}}$

 $-\frac{7}{8}$ $-\sqrt{2}$

3) $\sec^2 \frac{\pi}{4} - \cot^2 \frac{\pi}{4}$

4) $\cos 0^\circ \sec^3 60^\circ$

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 -2 $\frac{29}{4}$

5) $\frac{\cot 30^\circ}{5 - \sin 30^\circ} +$

$$\frac{\tan \frac{\pi}{6} - \sec \frac{\pi}{4}}{\sec \frac{\pi}{3}}$$

 $\frac{2\sqrt{3} + 9}{9}$ $\frac{3\sqrt{3} - 2\sqrt{6}}{12}$