

Evaluate each expression.

1) $\cot^2 30^\circ \csc^2 45^\circ \csc^2 30^\circ$

2) $\frac{9 \cot 30^\circ + \csc 30^\circ}{\sec 30^\circ}$

3) $\sec \frac{\pi}{3} - 7 \csc \frac{\pi}{2}$

$3 \csc \frac{\pi}{2}$

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5) $\frac{\cot \frac{\pi}{3} \sec \frac{\pi}{6}}{2}$

$- \csc 30^\circ + \sec 45^\circ$

Evaluate

Evaluate each expression.

1) $\cot^2 30^\circ \csc^2 45^\circ \csc^2 30^\circ$

2) $\frac{9 \cot 30^\circ + \csc 30^\circ}{\sec 30^\circ}$

3) $\sec \frac{\pi}{3} - 7 \csc \frac{\pi}{2}$

5) $\frac{\cot \frac{\pi}{3} \sec \frac{\pi}{6}}{2}$

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

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$3 \csc \frac{\pi}{2}$

 $\frac{2(3-7)}{3}$ $\sqrt{3} + 1$

$-\csc 30^\circ + \sec 45^\circ$

 $\frac{1}{3}$ $10 + \sqrt{2}$