

Name : \_\_\_\_\_

## Evaluate

Reciprocal: S1

Evaluate each expression.

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

2)  $12 \cot 45^\circ - \csc 30^\circ + \sec 45^\circ$

3)  $\csc 90^\circ \sec 0^\circ + \frac{1}{5}$

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

5)  $\sec^2 0^\circ + \cot^2 30^\circ \csc^2 60^\circ$

6)  $\cot 60^\circ + \sec 30^\circ + \frac{\csc 45^\circ}{\sec 30^\circ}$

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## Answer key

### Evaluate

Reciprocal: S1

Evaluate each expression.

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

$\frac{1}{3}$

2)  $12 \cot 45^\circ - \csc 30^\circ + \sec 45^\circ$

$10 + \sqrt{2}$

3)  $\csc 90^\circ \sec 0^\circ + \frac{1}{5}$

$\frac{6}{5}$

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

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5)  $\sec^2 0^\circ + \cot^2 30^\circ \csc^2 60^\circ$

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6)  $\cot 60^\circ + \sec 30^\circ + \frac{\csc 45^\circ}{\sec 30^\circ}$

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