

Name : _____

Evaluate

Reciprocal: S2

Evaluate each expression.

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

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

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

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

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

Name : _____

Answer key

Reciprocal: S2

Evaluate

Evaluate each expression.

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

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

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

5) $\csc 60^\circ (2 \sec 30^\circ - 1)$

24

$\frac{2}{3}$

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$\frac{9\sqrt{3}}{41}$

5

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

$\frac{2(2\sqrt{3} - 3)}{3}$

$3(2\sqrt{3} + 1)$