

Even / Odd Identities

Use even-odd identities to find the exact value of each trigonometric expression.

1) $\tan(-60^\circ) + \csc(-30^\circ) - \sin 0^\circ$

2) $4 \sec(-45^\circ) + 2 \cos(-60^\circ)$

3) $\sec(-60^\circ)$

5) $\sin\left(-\frac{\pi}{2}\right)$

7) $\frac{\sin(-90^\circ) + \tan(-30^\circ)}{\cot(-60^\circ) - \csc 60^\circ}$

8) $\cot\left(-\frac{\pi}{3}\right) + \tan\left(-\frac{\pi}{6}\right)$

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$$\frac{\csc\left(-\frac{\pi}{3}\right)}{-\frac{\pi}{4}}$$

$$5^\circ \sin(-30^\circ) + 5$$

Even / Odd Identities

Use even-odd identities to find the exact value of each trigonometric expression.

1) $\tan(-60^\circ) + \csc(-30^\circ) - \sin 0^\circ$

2) $4 \sec(-45^\circ) + 2 \cos(-60^\circ)$

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

$4\sqrt{2} + 1$

3) $\sec(-60^\circ)$

PREVIEW

$$\frac{\csc\left(-\frac{\pi}{3}\right)}{-\frac{\pi}{4}}$$

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5) $\sin\left(-\frac{\pi}{2}\right)$

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$5^\circ \sin(-30^\circ) + 5$

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

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7) $\frac{\sin(-90^\circ) + \tan(-30^\circ)}{\cot(-60^\circ) - \csc 60^\circ}$

8) $\cot\left(-\frac{\pi}{3}\right) + \tan\left(-\frac{\pi}{6}\right)$

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

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