

Evaluating Trigonometric Functions

A) Evaluate each function at the specified value.

1) $f(x) = \tan x + 2\operatorname{cosec} x ; x = \frac{5\pi}{4}$

2) $f(x) = 4\sec x - \sin x ; x = 2\pi$

B) Evaluate each function.

1) $f(x) = \sin x \cdot 2\sec^2 x$

; find $f(\pi)$

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C) If $f(x) = 5\cot x - 4\sin$

1) $f\left(\frac{\pi}{2}\right) =$ _____

3) $f\left(\frac{2\pi}{3}\right) =$ _____

D) If $f(x) = 3\cos x \cdot 2\tan$

1) $2f\left(-\frac{5\pi}{3}\right) \times f(2\pi)$

3) $\frac{f\left(\frac{3\pi}{4}\right)}{f\left(\frac{\pi}{6}\right)} =$ _____

4) $3f\left(\frac{7\pi}{4}\right) - f\left(\frac{5\pi}{4}\right) =$ _____

E) What is the value of $f\left(\frac{3\pi}{2}\right)$, if $f(x) = \cos x + \sin x$?

i) 1

ii) -1

iii) 2

iv) -2

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1) $f(x) = \tan x + 2\operatorname{cosec} x ; x = \frac{5\pi}{4}$

2) $f(x) = 4\sec x - \sin x ; x = 2\pi$

_____ $1 - 2\sqrt{2}$ _____

_____ 4 _____

B) Evaluate each function.

1) $f(x) = \sin x \cdot 2\sec^2 x$

; find $f(\pi)$

_____ $\frac{4}{3}$ _____

_____ 8 _____

C) If $f(x) = 5\cot x - 4\sin$

1) $f\left(\frac{\pi}{2}\right) =$ _____

_____ $-5 - 2\sqrt{2}$ _____

3) $f\left(\frac{2\pi}{3}\right) =$ _____

_____ $-5\sqrt{3} - 2$ _____

D) If $f(x) = 3\cos x \cdot 2\tan$

1) $2f\left(-\frac{5\pi}{3}\right) \times f(2\pi)$

$) =$ _____ 9 _____

3) $\frac{f\left(\frac{3\pi}{4}\right)}{f\left(\frac{\pi}{6}\right)} =$ _____ $\sqrt{2}$ _____

4) $3f\left(\frac{7\pi}{4}\right) - f\left(\frac{5\pi}{4}\right) =$ _____ $-6\sqrt{2}$ _____

E) What is the value of $f\left(\frac{3\pi}{2}\right)$, if $f(x) = \cos x + \sin x$?

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