

## Evaluating Trigonometric Functions

A) Evaluate each function at the specified value.

1)  $f(x) = 4\sec x - 5\cos x$  ;  $x = 0$

\_\_\_\_\_

2)  $f(x) = \frac{5\sin^3 x}{\sec 2x}$  ;  $x = -\frac{\pi}{2}$

\_\_\_\_\_

B) Evaluate each function.

1)  $f(x) = 7\tan x \cdot \operatorname{cosec} x$

\_\_\_\_\_

$\operatorname{cosec} 2x$  ; find  $f\left(-\frac{5\pi}{6}\right)$

\_\_\_\_\_

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C) If  $f(x) = \frac{\tan^2 x}{\operatorname{cosec} x}$  ; find

1)  $f\left(\frac{\pi}{6}\right) =$  \_\_\_\_\_

3)  $f\left(-\frac{4\pi}{3}\right) =$  \_\_\_\_\_

D) If  $f(x) = 3\sec x + \cos x$

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

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

4)  $3f\left(-\frac{\pi}{4}\right) \times f(\pi) =$  \_\_\_\_\_

E) What is the value of  $f\left(\frac{3\pi}{8}\right)$ , if  $f(x) = \cot 2x \cdot \operatorname{cosec} 4x$ ?

i) 3

ii) -4

iii) -5

iv) 1

**Evaluating Trigonometric Functions**

A) Evaluate each function at the specified value.

1)  $f(x) = 4\sec x - 5\cos x ; x = 0$

    **-1**    

2)  $f(x) = \frac{5\sin^3 x}{\sec 2x} ; x = -\frac{\pi}{2}$

    **5**    

B) Evaluate each function.

1)  $f(x) = 7\tan x \cdot \operatorname{cosec} x$

    **-14**    

n  $2x$  ; find  $f\left(-\frac{5\pi}{6}\right)$

**PREVIEW**

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C) If  $f(x) = \frac{\tan^2 x}{\operatorname{cosec} x}$  ; find

1)  $f\left(\frac{\pi}{6}\right) =$       **$\frac{\sqrt{2}}{2}$**     

3)  $f\left(-\frac{4\pi}{3}\right) =$       **$-\frac{1}{6}$**     

D) If  $f(x) = 3\sec x + \cos x$

1)  $f\left(\frac{7\pi}{4}\right) - f\left(\frac{5\pi}{4}\right)$

     **$\frac{4\sqrt{3} - 1}{16}$**     

3)  $4f\left(-\frac{\pi}{3}\right) + 5f(3\pi) =$      **12**    

4)  $3f\left(-\frac{\pi}{4}\right) \times f(\pi) =$       **$-6(3\sqrt{2} - 1)$**     

E) What is the value of  $f\left(\frac{3\pi}{8}\right)$ , if  $f(x) = \cot 2x \cdot \operatorname{cosec} 4x$ ?i) **3**ii) **-4**iii) **-5**iv)  **1**