

## Evaluating Trigonometric Functions

A) Evaluate each function at the specified value.

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

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

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B) Evaluate each function.

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