Name: _____

Evaluating Trigonometric Functions

Sheet 4

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

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

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