

Evaluating Functions

A) Evaluate each function at the specified value.

1) $f(x) = 6x^2 - 2x + 13$; $x = -1$

2) $f(x) = -9\operatorname{cosec} x + 5$; $x = \frac{\pi}{6}$

B) Evaluate each function.

1) $f(x) = x^3 - 7x^2 + x + 1$

; find $f(4)$

C) If $f(x) = \frac{4 + 8x^2}{x}$; find

1) $f(-4) =$ _____

3) $f(-2) =$ _____

D) If $f(x) = \sin x \cdot \cot x$;

1) $f\left(\frac{\pi}{2}\right) + 2f\left(\frac{\pi}{4}\right) =$ _____

3) $3f\left(\frac{3\pi}{2}\right) - 8f\left(-\frac{\pi}{6}\right) =$ _____

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

E) What is the value of $f(-5)$, if $f(x) = \frac{3}{x-1}$?

i) $-\frac{1}{3}$

ii) -3

iii) $-\frac{1}{2}$

iv) 2

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C) If $f(x) = \frac{4 + 8x^2}{x}$; find

1) $f(-4) =$ _____

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3) $f(-2) =$ _____

$\frac{76}{3}$ or $25\frac{1}{3}$

D) If $f(x) = \sin x \cdot \cot x$;

1) $f\left(\frac{\pi}{2}\right) + 2f\left(\frac{\pi}{4}\right) =$ _____

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

3) $3f\left(\frac{3\pi}{2}\right) - 8f\left(-\frac{\pi}{6}\right) =$ _____

$-4\sqrt{3}$

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

$4\sqrt{3}$

E) What is the value of $f(-5)$, if $f(x) = \frac{3}{x-1}$?

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