

Name: _____

Evaluating Functions

L253

A) Evaluate each function at the specified value.

1) $f(x) = 7\cot^2 x ; x = \frac{\pi}{3}$

2) $f(x) = 5^x + 2x - 9 ; x = 3$

B) Evaluate each function.

1) $f(x) = \frac{(x-4)^2}{x} ; \text{find } f(1)$

2) $f(x) = \cos x ; \text{find } f(-\pi)$

C) If $f(x) = 7x^4 + 5x^3 - 6x$

1) $f(0) =$ _____

3) $f(2) =$ _____

D) If $f(x) = (-2)^{(1+x)}$; find

1) $\frac{f(2)}{2f(-1)} =$ _____

3) $f(4) \times 3f(0) =$ _____

4) $6f(1) - f(5) =$ _____

E) What is the value of $f(-1)$, if $f(x) = -x^2 - 5x + 9$?

i) -13

ii) 13

iii) 15

iv) 9

Evaluating Functions

A) Evaluate each function at the specified value.

1) $f(x) = 7\cot^2 x ; x = \frac{\pi}{3}$

2) $f(x) = 5^x + 2x - 9 ; x = 3$

$\frac{7}{3}$ or $2\frac{1}{3}$

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B) Evaluate each function.

1) $f(x) = \frac{(x-4)^2}{x} ; \text{ find } f(-1)$

2) $f(x) = 2x^2 - 3x + 1 ; \text{ find } f(-\pi)$

-18

2

C) If $f(x) = 7x^4 + 5x^3 - 6x$

1) $f(0) =$ _____

5

3) $f(2) =$ _____

389

D) If $f(x) = (-2)^{(1+x)}$; find

1) $\frac{f(2)}{2f(-1)} =$ _____

15

3) $f(4) \times 3f(0) =$ **192**

4) $6f(1) - f(5) =$ **-40**

E) What is the value of $f(-1)$, if $f(x) = -x^2 - 5x + 9$?

i) -13

ii) 13

iii) 15

iv) 9

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