

Name: _____

Evaluating Functions

L1ES1

A) Evaluate each function at the specified values.

1) $f(x) = 15 + x ; x = 7$

2) $f(x) = 2x^5 - 3x^3 - 8x^2 - 9x ; x = -2$

B) Evaluate each function.

1) $f(x) = x^3 - 5x^2 - x ; \text{ find } f(3)$

2) $f(x) = 9x^2 + 5 ; \text{ find } f(10)$

C) If $f(x) = -7x^4 - 4x^3 - 8x^2 + 12 ; \text{ find the following.}$

1) $f(-2) =$ _____

2) $f(-3) =$ _____

3) $f(1) =$ _____

4) $f(0) =$ _____

D) If $f(x) = -4(x + 1) ; \text{ find the following.}$

1) $\frac{8f(-4)}{f(3)} =$ _____

2) $3f(-13) + 5f(6) =$ _____

3) $-4f(1) - 9f(-1) =$ _____

4) $-2f(4) \times f(-5) =$ _____

E) What is the value of $f(-11)$, if $f(x) = 5x^2 - 2x$?

i) 583

ii) -583

iii) -627

iv) 627

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B) Evaluate each function.

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2) $f(x) = 9x^2 + 5 ; \text{ find } f(10)$

905C) If $f(x) = -7x^4 - 4x^3 - 8x^2 + 12 ; \text{ find the following.}$

1) $f(-2) = \underline{-100}$

2) $f(-3) = \underline{-519}$

3) $f(1) = \underline{-7}$

4) $f(0) = \underline{12}$

D) If $f(x) = -4(x + 1) ; \text{ find the following.}$

1) $\frac{8f(-4)}{f(3)} = \underline{-6}$

2) $3f(-13) + 5f(6) = \underline{4}$

3) $-4f(1) - 9f(-1) = \underline{32}$

4) $-2f(4) \times f(-5) = \underline{640}$

E) What is the value of $f(-11)$, if $f(x) = 5x^2 - 2x$?

i) 583

ii) -583

iii) -627

iv) 627