

# Evaluating Functions

A) Evaluate each function at the specified values.

1)  $f(x) = 9x^6 - x^3 - 2x^2 - 6x - 14$  ;  $x = 1$

2)  $f(x) = 5x^2 + 3x + 4$  ;  $x = 3$

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B) Evaluate each function.

1)  $f(x) = 11 - x^2 - 7x$

2)  $f(x) = 11 - x^2 - 7x$  ; find  $f(-9)$

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\_\_\_\_\_

C) If  $f(x) = -9 + 4x$  ; find

1)  $f(10) =$  \_\_\_\_\_

3)  $f(-13) =$  \_\_\_\_\_

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\_\_\_\_\_

D) If  $f(x) = -6x^2 - 5x$  ; find

1)  $7f(-2) + f(6) =$  \_\_\_\_\_

3)  $2f(-8) - f(7) =$  \_\_\_\_\_

4)  $\frac{4f(-5)}{f(-1)} =$  \_\_\_\_\_

\_\_\_\_\_

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E) What is the value of  $f(2)$ , if  $f(x) = -x^5 + 7x^3 - 4x^2 + x$ ?

i) 10

ii) 15

iii) -12

iv) 14

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## Evaluating Functions

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**-14****58**

B) Evaluate each function.

1)  $f(x) = 11 - x^2 - 7x$

2)  $f(x) = x^2 + 1$  ; find  $f(-9)$

**-109****5**C) If  $f(x) = -9 + 4x$  ; find

1)  $f(10) =$  \_\_\_\_\_

**-37**

3)  $f(-13) =$  \_\_\_\_\_

**27**D) If  $f(x) = -6x^2 - 5x$  ; find

1)  $7f(-2) + f(6) =$  \_\_\_\_\_

**-836**

3)  $2f(-8) - f(7) =$  **-359**

4)  $\frac{4f(-5)}{f(-1)} =$  **500**

E) What is the value of  $f(2)$ , if  $f(x) = -x^5 + 7x^3 - 4x^2 + x$ ?i)  10

ii) 15

iii) -12

iv) 14

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