

## Evaluating Polynomial Functions

A) Evaluate each function at the specified values.

1)  $f(x) = x^3 + 5x^2 - 10$  ;  $x = -9$

2)  $f(x) = 2x^5 - 8x^2 - 6x - 4$  ;  $x = -3$

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B) Evaluate each function.

1)  $f(x) = -4x^6$  ; find

$+ 15$  ; find  $f(-7)$

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\_\_\_\_\_

C) If  $f(x) = -x^4 + 8x^3 - 1$

1)  $f(0) =$  \_\_\_\_\_

3)  $f(5) =$  \_\_\_\_\_

D) If  $f(x) = x^3 - 4x^2 + 1$  ;

1)  $-2f(0) \times f(-5) =$  \_\_\_\_\_

3)  $4f(2) + f(9) =$  \_\_\_\_\_

4)  $-f(10) - 5f(-4) =$  \_\_\_\_\_

E) What is the value of  $f(3)$ , if  $f(x) = -3x^5 + 6x^4 - 7$ ?

i) 257

ii) -263

iii) 262

iv) -250

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