

## Evaluating Quadratic Functions

A) Evaluate each function at the specified value.

1)  $f(x) = 3x^2 - 5x + 15$  ;  $x = -1$

2)  $f(x) = (x - 4)^2 - 6x$  ;  $x = 7$

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\_\_\_\_\_

B) Evaluate each function.

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

$f(x) = x^2 - 12x$  ; find  $f(-3)$

\_\_\_\_\_

\_\_\_\_\_

C) If  $f(x) = -2x^2 + 6$  ; find

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

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

\_\_\_\_\_

\_\_\_\_\_

D) If  $f(x) = x^2 - 10x - 7$

1)  $3f(15) + 5f(2) =$  \_\_\_\_\_

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

4)  $-6f(9) - f(12) =$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E) What is the value of  $f(-13)$ , if  $f(x) = x(3x + 9) + 11$ ?

i) 401

ii) -396

iii) 410

iv) -398

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A) Evaluate each function at the specified value.

1)  $f(x) = 3x^2 - 5x + 15$  ;  $x = -1$

2)  $f(x) = (x - 4)^2 - 6x$  ;  $x = 7$

23

-33

B) Evaluate each function.

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

$f(4) - 12x$  ; find  $f(-3)$

-8

4

C) If  $f(x) = -2x^2 + 6$  ; find

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

-386

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

4

D) If  $f(x) = x^2 - 10x - 7$

1)  $3f(15) + 5f(2) =$  \_\_\_\_\_

-248

3)  $\frac{f(-3)}{4f(-1)} =$  2

4)  $-6f(9) - f(12) =$  79

E) What is the value of  $f(-13)$ , if  $f(x) = x(3x + 9) + 11$ ?

i)  401

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