

## Evaluating Quadratic Functions

A) Evaluate each function at the specified value.

1)  $f(x) = x(x - 13)$  ;  $x = 9$

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

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B) Evaluate each function.

1)  $f(x) = 8 - 2x^2$  ; find

$f(15)$

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C) If  $f(x) = (7x + 1)(-x + 1)$

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

3)  $f(-4) =$  \_\_\_\_\_

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

1)  $\frac{2f(-11)}{f(11)} =$  \_\_\_\_\_

3)  $3f(5) \times f(0) =$  \_\_\_\_\_

4)  $-7f(-3) - f(10) =$  \_\_\_\_\_

E) What is the value of  $f(6)$ , if  $f(x) = 5x^2$ ?

i) 150

ii) -150

iii) 180

iv) -180

