Name : _____ Score : _____

Evaluating Quadratic Functions

ES3

Evaluate each quadratic function for the given x-value.

1) $f(x) = 6(x - 3)(2x - 4)$ at $x = 0$

2) $f(x) = -x^2 + 10$ at $x = 10$

3) $f(x) = -x^2 + x -$ $15x$ at $x = -6$

5) $f(x) = (5x + 3)$ $2x - 23$ at $x = 0$

7) $f(x) = -10x^2 -$ $)^2 - 11$ at $x = -9$

9) $f(x) = 5x^2 - 13x - 7$ at $x = -2$

10) $f(x) = (x + 9)(-2x + 1)$ at $x = 5$

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Answer key

Evaluating Quadratic Functions

ES3

Evaluate each quadratic function for the given x-value.

1) $f(x) = 6(x - 3)(2x - 4)$ at $x = 0$

$f(0) = 72$

2) $f(x) = -x^2 + 10$ at $x = 10$

$f(10) = -90$

3) $f(x) = -x^2 + x -$ $15x$ at $x = -6$

$f(13) = -168$

5) $f(x) = (5x + 3)$ $2x - 23$ at $x = 0$

$f(-4) = 291$

7) $f(x) = -10x^2 -$ $)^2 - 11$ at $x = -9$

$f(1) = -11$

$f(-9) = 9$

9) $f(x) = 5x^2 - 13x - 7$ at $x = -2$

$f(-2) = 39$

10) $f(x) = (x + 9)(-2x + 1)$ at $x = 5$

$f(5) = -126$

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