

Name : \_\_\_\_\_

## Evaluating Quadratic Functions

T2ES2

Evaluate each quadratic function for the given  $x$ -value.

1)  $f(x) = x^2 - x - 2$  at  $x = 12$

2)  $f(x) = -2x^2 - 3x + 8$  at  $x = -3$

3)  $f(x) = (4x + 5)$

1 at  $x = 8$

5)  $f(x) = 10x^2 - 5$

7) at  $x = -7$

7)  $f(x) = 3(x + 7)$

$2x$  at  $x = 2$

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9)  $f(x) = -3x^2 - 11x - 21$  at  $x = 9$

10)  $f(x) = 4(-2x + 14)^2 + 5$  at  $x = 6$

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## Answer key

### Evaluating Quadratic Functions

T2ES2

Evaluate each quadratic function for the given  $x$ -value.

1)  $f(x) = x^2 - x - 2$  at  $x = 12$

2)  $f(x) = -2x^2 - 3x + 8$  at  $x = -3$

**$f(12) = 130$**

**$f(-3) = -1$**

3)  $f(x) = (4x + 5)$

1 at  $x = 8$

**$f(-4) = 112$**

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5)  $f(x) = 10x^2 - 5$

7) at  $x = -7$

**$f(0) = 4$**

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7)  $f(x) = 3(x + 7)$

2x at  $x = 2$

**$f(-5) = -60$**

**$f(2) = 8$**

9)  $f(x) = -3x^2 - 11x - 21$  at  $x = 9$

10)  $f(x) = 4(-2x + 14)^2 + 5$  at  $x = 6$

**$f(9) = -363$**

**$f(6) = 21$**

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