

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

## Evaluating Quadratic Functions

T2MS2

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

1)  $f(x) = (9x - 2)^2 - 4$  at  $x = 0.5$

2)  $f(x) = 5(x - 7)(x - 3)$  at  $x = \frac{4}{5}$

3)  $f(x) = 5x^2 - 19$

$5x - 1$  at  $x = -2.4$

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

$12)^2 - 7$  at  $x = -\frac{2}{3}$

7)  $f(x) = 6x^2 - 17$

$x + 15$  at  $x = 7.2$

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9)  $f(x) = (x - 14)(x + 7)$  at  $x = -1.1$

10)  $f(x) = -x^2 + 2x - 6$  at  $x = \frac{3}{7}$

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## Answer key

### Evaluating Quadratic Functions

T2MS2

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

1)  $f(x) = (9x - 2)^2 - 4$  at  $x = 0.5$

$$f(0.5) = 2.25$$

2)  $f(x) = 5(x - 7)(x - 3)$  at  $x = \frac{4}{5}$

$$f\left(\frac{4}{5}\right) = \frac{341}{5}$$

3)  $f(x) = 5x^2 - 19$

# PREVIEW

at  $x = -2.4$

$$f\left(-\frac{1}{4}\right) = -\frac{29}{1}$$

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$$= 6.44$$

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

at  $x = -\frac{2}{3}$

$$f(-4.3) = 58.4$$

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7)  $f(x) = 6x^2 - 17$

at  $x = 7.2$

$$f\left(\frac{5}{6}\right) = -15$$

$$f(7.2) = -147.72$$

9)  $f(x) = (x - 14)(x + 7)$  at  $x = -1.1$

10)  $f(x) = -x^2 + 2x - 6$  at  $x = \frac{3}{7}$

$$f(-1.1) = -89.09$$

$$f\left(\frac{3}{7}\right) = -\frac{261}{49}$$

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