

Name : _____

Evaluating Quadratic Functions

T2MS1

Evaluate each quadratic function for the given x -value.

1) $f(x) = x^2 + 2x + 6$ at $x = -\frac{2}{5}$

2) $f(x) = 2x^2 + 5x - 10$ at $x = -1.3$

3) $f(x) = -6x^2 - 9$

3) $f(x) = 3x^2 + 5$ at $x = \frac{3}{4}$

5) $f(x) = 7x^2 + 18$

3) $f(x) = 3(5x - 1)$ at $x = 2.9$

7) $f(x) = (x - 6)(x + 2)$

7) $f(x) = 7x$ at $x = -0.5$

9) $f(x) = -5x^2 + 12x + 21$ at $x = -\frac{7}{3}$

10) $f(x) = 10(x + 2)^2 - 2$ at $x = 3.2$

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Answer key

Evaluating Quadratic Functions

T2MS1

Evaluate each quadratic function for the given x -value.

1) $f(x) = x^2 + 2x + 6$ at $x = -\frac{2}{5}$

$$f\left(-\frac{2}{5}\right) = \frac{134}{25}$$

2) $f(x) = 2x^2 + 5x - 10$ at $x = -1.3$

$$f(-1.3) = -13.12$$

3) $f(x) = -6x^2 - 9$

$$f(5.4) = -212$$

3) $f(x) = 3x^2 + 5$ at $x = \frac{3}{4}$

5) $f(x) = 7x^2 + 18$

$$f\left(\frac{1}{6}\right) = \frac{655}{36}$$

3) $f(x) = 3(5x - 1)$ at $x = 2.9$

7) $f(x) = (x - 6)(x + 7)$

$$f\left(-\frac{5}{2}\right) = \frac{51}{4}$$

$$f(0.8)$$

7) $f(x) = 7x$ at $x = -0.5$

9) $f(x) = -5x^2 + 12x + 21$ at $x = -\frac{7}{3}$

$$f\left(-\frac{7}{3}\right) = -\frac{308}{9}$$

10) $f(x) = 10(x + 2)^2 - 2$ at $x = 3.2$

$$f(3.2) = 268.4$$

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