

Name : _____

Evaluating Quadratic Functions

T2MS3

Evaluate each quadratic function for the given x -value.

1) $f(x) = 4x^2 - x - 1$ at $x = -\frac{1}{6}$

2) $f(x) = 3(2x - 7)^2 + 2$ at $x = -0.4$

3) $f(x) = 7(2x + 7)$

$x + 13$ at $x = \frac{2}{5}$

5) $f(x) = -x^2 + 6x$

$17x$ at $x = 6.2$

7) $f(x) = 5x^2 + 8$

$(3x + 10)$ at $x = -\frac{7}{3}$

9) $f(x) = (x + 4)^2 - 11$ at $x = -\frac{3}{2}$

10) $f(x) = -8x^2 - 19x - 16$ at $x = 1.3$

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

Name : _____

Answer key

Evaluating Quadratic Functions

T2MS3

Evaluate each quadratic function for the given x -value.

1) $f(x) = 4x^2 - x - 1$ at $x = -\frac{1}{6}$

$$f\left(-\frac{1}{6}\right) = -\frac{13}{18}$$

2) $f(x) = 3(2x - 7)^2 + 2$ at $x = -0.4$

$$f(-0.4) = 184.52$$

3) $f(x) = 7(2x + 7)$

$$f(3.5) = 147$$

$f(x) = x + 13$ at $x = \frac{2}{5}$

5) $f(x) = -x^2 + 6x$

$$f\left(\frac{5}{4}\right) = \frac{239}{16}$$

$f(x) = 7x$ at $x = 6.2$

7) $f(x) = 5x^2 + 8$

$$f(-2.6) = 41.8$$

$$f(x) = 0.48$$

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

9) $f(x) = (x + 4)^2 - 11$ at $x = -\frac{3}{2}$

$$f\left(-\frac{3}{2}\right) = -\frac{19}{4}$$

10) $f(x) = -8x^2 - 19x - 16$ at $x = 1.3$

$$f(1.3) = -54.22$$

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com