

Evaluating Quadratic Functions

A) Evaluate each function at the specified value. Round your answer to the nearest tenth.

1) $f(x) = 4x^2$; $x = 2.5$

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

B) Evaluate each function. Round your answer to the nearest tenth.

1) $f(x) = 6x + x^2$; find

1) -10 ; find $f\left(\frac{2}{3}\right)$

C) If $f(x) = (2x - 1)(5x + 1)$

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to the nearest tenth.

1) $f\left(-\frac{4}{5}\right) =$ _____

3) $f(2.5) =$ _____

D) If $f(x) = 12x^2 - 6x - 1$

to the nearest tenth.

1) $3f\left(-\frac{7}{6}\right) + 8f(3)$

E) What is the value of $f\left(-\frac{3}{4}\right)$, if $f(x) = 2x^2 + 7$?

i) $-\frac{9}{4}$

ii) $\frac{65}{8}$

iii) 10

iv) $\frac{33}{2}$

Evaluating Quadratic Functions

A) Evaluate each function at the specified value. Round your answer to the nearest tenth.

1) $f(x) = 4x^2$; $x = 2.5$

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

$\frac{53}{3}$ or $17\frac{2}{3}$

B) Evaluate each function. Round your answer to the nearest tenth.

1) $f(x) = 6x + x^2$; find $f(-2)$

-2.2

2) $f(x) = x^2 - 10$; find $f\left(\frac{2}{3}\right)$

2

C) If $f(x) = (2x - 1)(5x + 3)$

1) $f\left(-\frac{4}{5}\right) =$ _____

-2.2

3) $f(2.5) =$ _____

2.2

D) If $f(x) = 12x^2 - 6x - 1$

1) $3f\left(-\frac{7}{6}\right) + 8f(3)$

647

2) $f\left(\frac{2}{3}\right)$ to the nearest tenth.

117

-23

E) What is the value of $f\left(-\frac{3}{4}\right)$, if $f(x) = 2x^2 + 7$?

i) $-\frac{9}{4}$

ii) $\frac{65}{8}$

iii) 10

iv) $\frac{33}{2}$

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