

Name: _____

Evaluating Functions

L1MS2

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

1) $f(x) = \frac{5}{6}x^2 - 7x + 2$; $x = 3$

2) $f(x) = x^6 - 2x^4 + 6x$; $x = -1.5$

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

1) $f(x) = 6 - x$; find $f(-\frac{2}{3})$

2) $f(x) = 8x^2 - 5x - 3$; find $f(4.7)$

C) If $f(x) = 4x + 9$; find

PREVIEW
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rest tenth.

1) $f(8.7) =$ _____

3) $f(\frac{3}{2}) =$ _____

D) If $f(x) = \frac{x^2 + 4x}{2}$; find

nearest tenth.

1) $\frac{7.5f(3)}{2f(-3.2)}$

E) What is the value of $f(5)$, if $f(x) = 1.2x^4 - 8x^3 + 2.3x^2 + x + 1$?

i) 168.5

ii) -159

iii) 183

iv) -186.5

Evaluating Functions

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

1) $f(x) = \frac{5}{6}x^2 - 7x + 2$; $x = 3$

$-\frac{23}{2}$ or $-11\frac{1}{2}$

2) $f(x) = x^6 - 2x^4 + 6x$; $x = -1.5$

-7.7

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

1) $f(x) = 6 - x$; find $f(-\frac{2}{9})$

$\frac{56}{9}$ or $6\frac{2}{9}$

2) $f(x) = 8x^2 - 5x - 3$; find $f(4.7)$

90.2

C) If $f(x) = 4x + 9$; find

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rest tenth.

1) $f(8.7) =$ _____

-20.2

3) $f(\frac{3}{2}) =$ _____

$\frac{43}{7}$ or $6\frac{1}{7}$

D) If $f(x) = \frac{x^2 + 4x}{2}$; find

1) $\frac{7.5f(3)}{2f(-3.2)}$

nearest tenth.

-30.8

-112

E) What is the value of $f(5)$, if $f(x) = 1.2x^4 - 8x^3 + 2.3x^2 + x + 1$?

i) 168.5

ii) -159

iii) 183

~~iv)~~ -186.5