Name: _____

Evaluating Functions

L1MS1

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

1) $f(x) = x^6 - 4x^2 - 3x + 7$; $x = 2.3$

2) $f(x) = \frac{8x - 6}{9}$; $x = -7$

_____ _____

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

1) $f(x) = 9.7x^2 + 5x$; find $f(-6)$

2) $f(x) = 9x - 4$; find $f\left(\frac{5}{8}\right)$

_____ _____

C) If $f(x) = 3x^5 - 9x^4 - 2x$ [illegible] answer to the nearest tenth.

1) $f(3.8)$ = _____ _____

3) $f(-1.5)$ = _____ _____

D) If $f(x) = -10 - 7x$; fi[illegible] earest tenth.

1) $2f\left(-\frac{3}{7}\right) - 5f\left(\frac{1}{5}\right)$

_____ _____

E) What is the value of $f\left(-\frac{2}{5}\right)$, if $f(x) = 2x^2 - 5x - 3$?

i) $\frac{13}{25}$ ii) $-\frac{17}{25}$ iii) $-\frac{11}{25}$ iv) $\frac{9}{25}$

Name: _____ **Answer key**

Evaluating Functions

L1MS1

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

1) $f(x) = x^6 - 4x^2 - 3x + 7$; $x = 2.3$

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2) $f(x) = \frac{8x - 6}{9}$; $x = -7$

$-\frac{62}{9}$ or $-6\frac{8}{9}$

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

1) $f(x) = 9.7x^2 + 5x$; find $f(-6)$

319.2

2) $f(x) = 9x - 4$; find $f\left(\frac{5}{8}\right)$

$1\frac{5}{8}$

C) If $f(x) = 3x^5 - 9x^4 - 2x$ [illegible] answer to the nearest tenth.

1) $f(3.8)$ = _____ **$-\frac{55}{81}$**

3) $f(-1.5)$ = _____ **−50.6**

D) If $f(x) = -10 - 7x$; fi[illegible] earest tenth.

1) $2f\left(-\frac{3}{7}\right) - 5f\left(\frac{1}{5}\right)$

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−66.6

E) What is the value of $f\left(-\frac{2}{5}\right)$, if $f(x) = 2x^2 - 5x - 3$?

i) $\frac{13}{25}$ ii) ✓ $-\frac{17}{25}$ iii) $-\frac{11}{25}$ iv) $\frac{9}{25}$