

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

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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  $f\left(\frac{5}{8}\right)$

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C) If  $f(x) = 3x^5 - 9x^4 - 2x$ , find  $f(3.8)$  and  $f(-1.5)$ . Round your answer to the nearest tenth.

1)  $f(3.8) =$  \_\_\_\_\_

3)  $f(-1.5) =$  \_\_\_\_\_

\_\_\_\_\_

answer to the nearest

\_\_\_\_\_

\_\_\_\_\_

D) If  $f(x) = -10 - 7x$  ; find  $f\left(-\frac{3}{7}\right) - 5f\left(\frac{1}{5}\right)$

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

\_\_\_\_\_

nearest tenth.

\_\_\_\_\_

\_\_\_\_\_

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)  $\frac{9}{25}$

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# Evaluating Functions

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

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

**127**

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  $f(x) = 3x^5 - 9x^4 - 2x$  ; find  $f(3)$  to the nearest tenth.

1)  $f(3.8) =$  \_\_\_\_\_

answer to the nearest

**$-\frac{55}{81}$**

3)  $f(-1.5) =$  \_\_\_\_\_

**-50.6**

D) If  $f(x) = -10 - 7x$  ; find  $f\left(-\frac{3}{7}\right) - 5f\left(\frac{1}{5}\right)$

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

nearest tenth.

**43**

**-66.6**

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

i)  $\frac{13}{25}$

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