

Evaluating Polynomial Functions

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

1) $f(x) = 4x^4 - 3x^3 + 6x + 1$; $x = \frac{1}{4}$

2) $f(x) = x^3 - 4x + 8$; $x = 7.5$

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

1) $f(x) = 3x^5 + 7x^4 - 4x - 9$;
find $f(-3.4)$

2) $f(x) = \frac{5x^6 - 3x^4 + 4x + 2}{7}$;

C) If $f(x) = x^4 - 5.3x^3 - 2$

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the nearest tenth.

1) $f(4) =$ _____

3) $f(5) =$ _____

D) If $f(x) = 2x^3 - 3$; find

1) $-2f(9) + f(-7.1)$

nearest tenth.

$\frac{5}{4}$

E) What is the value of $f(-5)$, if $f(x) = -1.2x^4$?

i) 626

ii) -750

iii) 750

iv) -626

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2) $f(x) = x^3 - 4x + 8$; $x = 7.5$

$\frac{79}{32}$ or $2\frac{15}{32}$

399.9

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

1) $f(x) = 3x^5 + 7x^4 - 4x - 9$;
find $f(-3.4)$

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-423

8

C) If $f(x) = x^4 - 5.3x^3 - 2$

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the nearest tenth.

1) $f(4) =$ _____

13.6

3) $f(5) =$ _____

230.1

D) If $f(x) = 2x^3 - 3$; find

nearest tenth.

1) $-2f(9) + f(-7.1)$

$\frac{5}{4}$

$-3,628.8$

$-\frac{293}{18}$ or $-16\frac{5}{18}$

E) What is the value of $f(-5)$, if $f(x) = -1.2x^4$?

i) 626

ii) -750

iii) 750

iv) -626