Name: _____

Evaluating Polynomial Functions

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

1) $f(x) = x^6 - 2x + 5$; $x = 1.7$

2) $f(x) = \dfrac{x^4 + 8}{9}$; $x = -1$

_____   _____

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

1) $f(x) = 1.2x^5 - 3x^3 + 2.5x^2$;
   find $f(-2)$

2) $f(x) = 3x^4 + 5x^3 - 8x + 7$;

_____   _____

C) If $f(x) = 2x^3$; find the _____ t tenth.

1) $f(2.5)$ = _____

3) $f(-1.3)$ = _____

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D) If $f(x) = x^3 + 1$; find _____ rest tenth.

1) $2f\left(-\dfrac{3}{4}\right) - f(2)$ _____ ,2)

_____   _____

E) What is the value of $f\left(-\dfrac{1}{3}\right)$, if $f(x) = 5x^5 + 3x^3 + 2x^2 - 4x - 1$?

i) $\dfrac{113}{243}$

ii) $-\dfrac{47}{81}$

iii) $\dfrac{103}{243}$

iv) $\dfrac{23}{81}$