

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

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\_\_\_\_\_

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

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\_\_\_\_\_

C) If  $f(x) = 2x^3$  ; find the

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t tenth.

1)  $f(2.5) =$  \_\_\_\_\_

3)  $f(-1.3) =$  \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

D) If  $f(x) = x^3 + 1$  ; find

1)  $2f\left(-\frac{3}{4}\right) - f(2)$

rest tenth.

.2)

\_\_\_\_\_

\_\_\_\_\_

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

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

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

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

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

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**25.7**

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

**1**

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

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find  $f(-2)$

**-4.4**

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

**3  $\frac{20}{27}$**

C) If  $f(x) = 2x^3$  ; find the

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at tenth.

1)  $f(2.5) =$  \_\_\_\_\_

**$-\frac{1}{4}$**

3)  $f(-1.3) =$  \_\_\_\_\_

**65.5**

D) If  $f(x) = x^3 + 1$  ; find

1)  $2f\left(-\frac{3}{4}\right) - f(2)$

**$-\frac{251}{32}$  or  $-7\frac{27}{32}$**

rest tenth.

2)

**162.5**

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

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