

Evaluating Polynomial Functions

A) Evaluate each function at the specified values.

1) $f(x) = 4x^5 + 3x^2 - 11$; $x = -3$

2) $f(x) = 6x^6 - x^5 - 6x^4 + 5x^3 - x^2 - 4x + 1$;
 $x = 1$

B) Evaluate each function.

1) $f(x) = x^5 + 6x^3$; find $f(-4)$

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C) If $f(x) = x^3 - 5x^2 - 15$

1) $f(8) =$ _____

3) $f(-5) =$ _____

D) If $f(x) = x^6 - 7x^5 + 6$;

1) $\frac{f(3)}{7f(0)} =$ _____

3) $8f(-2) - f(-3) =$ _____

4) $f(5) \times f(1) =$ _____

E) What is the value of $f(-6)$, if $f(x) = -2x^3 + 8x - 13$?

i) 383

ii) -317

iii) 371

iv) -371