

Evaluating Polynomial Functions

A) Evaluate each function at the specified values.

1) $f(x) = x^3 + 5x^2 - 10$; $x = -9$

2) $f(x) = 2x^5 - 8x^2 - 6x - 4$; $x = -3$

B) Evaluate each function.

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

$+ 15$; find $f(-7)$

C) If $f(x) = -x^4 + 8x^3 - 1$

1) $f(0) =$ _____

3) $f(5) =$ _____

D) If $f(x) = x^3 - 4x^2 + 1$;

1) $-2f(0) \times f(-5) =$ _____

3) $4f(2) + f(9) =$ _____

4) $-f(10) - 5f(-4) =$ _____

E) What is the value of $f(3)$, if $f(x) = -3x^5 + 6x^4 - 7$?

i) 257

ii) -263

iii) 262

iv) -250

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com

Evaluating Polynomial Functions

A) Evaluate each function at the specified values.

1) $f(x) = x^3 + 5x^2 - 10$; $x = -9$

2) $f(x) = 2x^5 - 8x^2 - 6x - 4$; $x = -3$

-334

-544

B) Evaluate each function.

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

$+ 15$; find $f(-7)$

-4

5

C) If $f(x) = -x^4 + 8x^3 - 1$

1) $f(0) =$ _____

421

3) $f(5) =$ _____

-11

D) If $f(x) = x^3 - 4x^2 + 1$;

1) $-2f(0) \times f(-5) =$ _____

-222

3) $4f(2) + f(9) =$ **378**

4) $-f(10) - 5f(-4) =$ **34**

E) What is the value of $f(3)$, if $f(x) = -3x^5 + 6x^4 - 7$?

i) 257

ii) -263

iii) 262

iv) -250

PREVIEW

Gain complete access to the largest
collection of worksheets in all subjects!

Members, please
log in to
download this
worksheet.

Not a member?
Please sign up to
gain complete
access.

www.mathworksheets4kids.com