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) $f(x) = 3x^5 + 7x^4 - 4x - 9$: 2) $f(x) = \frac{5x^6 - 3x^4 + 4x + 2}{7}$;

find f(-3.4)

PREVIEW

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

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

the nearest tenth.

- 1) f(4)
- 3) f(5)
- D) If $f(x) = 2x^3 3$; finc
 - 1) -2f(9) + f(-7.1)

Members, please log in to download this worksheet.

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

www.mathworksheets4kids.com

arest tenth.

- E) What is the value of f(-5), if $f(x) = -1.2x^4$?
 - i) 626
- ii) -750
- iii) 750
- iv) -626

Evaluating Polynomial Functions

MS3

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

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.

Members, please

download this

worksheet.

log in to

1)
$$f(x) = 3x^5 + 7x^4 - 4x - 9$$
:

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

find f(-3.4)

-423

PREVIEW

Gain complete access to the largest

Not a member?

Please sign up to

gain complete

access.

collection of worksheets in all subjects!

the nearest tenth.

1)
$$f(4) =$$

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

13.6

3)
$$f(5) =$$

230.1

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

arest tenth.

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

www.mathworksheets4kids.com

-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
- -750
- iii) 750
- iv) -626