

# Evaluating Functions

A) Evaluate each function at the specified value.

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

\_\_\_\_\_

2)  $f(x) = \frac{10}{x^2 - 5}$  ;  $x = -5$

\_\_\_\_\_

B) Evaluate each function.

1)  $f(x) = 6\sin x - 12$  ; find

\_\_\_\_\_

$f(0)$

\_\_\_\_\_

# PREVIEW

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C) If  $f(x) = \tan^2 x + 4\cos x$

1)  $f\left(\frac{\pi}{6}\right) =$  \_\_\_\_\_

3)  $f\left(-\frac{\pi}{4}\right) =$  \_\_\_\_\_

D) If  $f(x) = x^3 - 5x + 10$  ;

1)  $7f(-3) \times f(-2) =$  \_\_\_\_\_

3)  $f(5) - 3f(4) =$  \_\_\_\_\_

4)  $f(7) + 2f(-6) =$  \_\_\_\_\_

E) What is the value of  $f(3)$ , if  $f(x) = 8 \cdot (1)^{-x}$  ?

i) 8

ii) 64

iii) 4

iv) 16

# Evaluating Functions

A) Evaluate each function at the specified value.

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

-248

2)  $f(x) = \frac{10}{x^2 - 5}$  ;  $x = -5$

$\frac{1}{2}$

B) Evaluate each function.

1)  $f(x) = 6\sin x - 12$  ; find  $f(0)$

-9

; find  $f(0)$

5

C) If  $f(x) = \tan^2 x + 4\cos x$

1)  $f\left(\frac{\pi}{6}\right) =$  \_\_\_\_\_

5

3)  $f\left(-\frac{\pi}{4}\right) =$  \_\_\_\_\_

4

D) If  $f(x) = x^3 - 5x + 10$  ;

1)  $7f(-3) \times f(-2) =$  \_\_\_\_\_

-7

3)  $f(5) - 3f(4) =$  -52

4)  $f(7) + 2f(-6) =$  -34

E) What is the value of  $f(3)$ , if  $f(x) = 8 \cdot (1)^{-x}$  ?

i)  8

ii) 64

iii) 4

iv) 16

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