

# Evaluating Exponential Functions

A) Evaluate each function at the specified value.

1)  $f(x) = 4 \cdot 5^{(8+x)}$  ;  $x = -6$

2)  $f(x) = 9^{(x-7)} - x$  ;  $x = 8$

\_\_\_\_\_

\_\_\_\_\_

B) Evaluate each function.

1)  $f(x) = (-8)^{(-3+x)}$  ; find

11 ; find  $f(-2)$

\_\_\_\_\_

\_\_\_\_\_

C) If  $f(x) = 8 \cdot (-2)^{(-2-x)} - 2$

1)  $f(-5) =$  \_\_\_\_\_

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

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

1)  $f(2) - 9f(0) =$  \_\_\_\_\_

3)  $3f(-4) \times f(-2) =$  \_\_\_\_\_

4)  $f(1) + 2f(-3) =$  \_\_\_\_\_

E) What is the value of  $f(-5)$ , if  $f(x) = -13 + 7^{(2x+10)}$ ?

i) 12

ii) 6

iii) -12

iv) -6

## 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