

Evaluating Exponential Functions

A) Evaluate each function at the specified value.

1) $f(x) = 7^{(x-5)} - 15$; $x = 8$

2) $f(x) = 10 \cdot (-5)^{(9+x)}$; $x = -10$

B) Evaluate each function.

1) $f(x) = -7 + (-1)^{(-x-3)}$

find $f(1)$

C) If $f(x) = 9 \cdot 3^{-x}$; find the

1) $f(0) =$ _____

3) $f(1) =$ _____

D) If $f(x) = 4^{(1-x)} - 8$; find

1) $4f(2) + f(-3) =$ _____

3) $\frac{3f(-2)}{f(0)} =$ _____

4) $f(-2) - 5f(1) =$ _____

E) What is the value of $f(-9)$, if $f(x) = (-7-x)^{(-5-x)}$?

i) -49

ii) 49

iii) -16

iv) 16

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1) $f(x) = 7^{(x-5)} - 15$; $x = 8$

2) $f(x) = 10 \cdot (-5)^{(9+x)}$; $x = -10$

328

-2

B) Evaluate each function.

1) $f(x) = -7 + (-1)^{(-x-3)}$

find $f(1)$

-6

9

C) If $f(x) = 9 \cdot 3^{-x}$; find the

1) $f(0) =$ _____

27

3) $f(1) =$ _____

1

D) If $f(x) = 4^{(1-x)} - 8$; find

1) $4f(2) + f(-3) =$ _____

-127

3) $\frac{3f(-2)}{f(0)} =$ _____

-42

4) $f(-2) - 5f(1) =$ _____

91

E) What is the value of $f(-9)$, if $f(x) = (-7-x)^{(-5-x)}$?

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