

# Evaluating Exponential Functions

A) Evaluate each function at the specified value.

1)  $f(x) = 3^{(-x+6)} - 4$  ;  $x = 6$

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2)  $f(x) = 8^{(-2x-15)} + 11$  ;  $x = -9$

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B) Evaluate each function.

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

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$+ x$  ; find  $f(0)$

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C) If  $f(x) = 4^{(x+3)}$  ; find t

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

3)  $f(1) =$  \_\_\_\_\_

D) If  $f(x) = 7 - 2^x$  ; find th

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

3)  $8f(-3) + f(5) =$  \_\_\_\_\_

4)  $\frac{5f(6)}{f(1)} =$  \_\_\_\_\_

E) What is the value of  $f(9)$ , if  $f(x) = (-10)^{(x-8)} \cdot (x+6)$ ?

i) 220

ii) -150

iii) -220

iv) 150

