

Name: _____

Evaluating Exponential Functions

ES3

A) Evaluate each function at the specified value.

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

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

B) Evaluate each function.

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

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

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

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

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