

Name: _____ No. ____ M.4/____

Evaluating Exponential Functions

A. Evaluate each function at the specified value.

1. $f(x) = 3^x$ where $f(-2)$, $f(0)$, and $f(2)$

Answer

$f(-2) = \underline{\hspace{2cm}}$, $f(0) = \underline{\hspace{2cm}}$, $f(2) = \underline{\hspace{2cm}}$

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

Answer

$f(8) = \underline{\hspace{2cm}}$

2. $f(x) = \left(\frac{1}{3}\right)^x$ where $f(-1)$, $f(0)$, and $f(3)$

Answer

$f(-1) = \underline{\hspace{2cm}}$, $f(0) = \underline{\hspace{2cm}}$, $f(3) = \underline{\hspace{2cm}}$

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

Answer

$f(-6) = \underline{\hspace{2cm}}$

B. Evaluate and complete the following tables for the functions indicated.

1. $y = 4^x$

x	$y = 4^x$
-2	
-1	
0	
1	
2	

2. $y = 4^x + 3$

x	$y = 4^x$
-2	
-1	
0	
1	
2	