

Unit 4: Modeling & Analyzing Exponential Functions

Day 12: Evaluating Exponential Functions

Show ALL work.

C) If $f(x) = 8 \cdot (-2)^{(-2-x)} - 2x$; find the following.

1) $f(-5) = \underline{\hspace{2cm}}$

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

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

4) $f(-7) = \underline{\hspace{2cm}}$

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

1) $f(2) - 9f(0) = \underline{\hspace{2cm}}$

2) $\frac{4f(-1)}{f(-5)} = \underline{\hspace{2cm}}$

3) $3f(-4) \times f(-2) = \underline{\hspace{2cm}}$

4) $f(1) + 2f(-3) = \underline{\hspace{2cm}}$

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

i) 12

ii) 6

iii) -12

iv) -6