Day 12: Evaluating Exponential Functions

Show ALL work.

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

1) $f(-5)$ = _____

2) $f(0)$ = _____

3) $f(-3)$ = _____

4) $f(-7)$ = _____

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

1) $f(2) - 9f(0)$ = _____

2) $\dfrac{4f(-1)}{f(-5)}$ = _____

3) $3f(-4) \times f(-2)$ = _____

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

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

i) 12   ii) 6   iii) −12   iv) −6