Evaluating Exponential Functions

- 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) $f(x) = -5.6^{(4-x)}$; f

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+x; find f(0)

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

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

3)
$$f(1) =$$

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D) If $f(x) = 7 - 2^{x}$; find the

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

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

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

= _____

- E) What is the value of f(9), if $f(x) = (-10)^{(x-8)}$. (x+6)?
 - i) 220
- ii) –150
- iii) –220
- iv) 150

Evaluating Exponential Functions



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

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

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B) Evaluate each function.

1)
$$f(x) = -5.6^{(4-x)}$$
; f

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+x; find f(0)

-180

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

3)
$$f(1) =$$

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D) If
$$f(x) = 7 - 2^{x}$$
; find the

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

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3)
$$8f(-3) + f(5)$$

3)
$$8f(-3) + f(5) = 30$$
 4) $\frac{5f(6)}{f(1)}$

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