

Evaluating Exponential Functions

A) Evaluate each function at the specified value. Round your answer to the nearest tenth.

1) $f(x) = -12x \cdot (7.4)^{-(x-3)}$; $x = 5$

2) $f(x) = \frac{7}{2} \cdot \left(-\frac{1}{7}\right)^{6x} + \frac{2}{7}x$; $x = \frac{1}{3}$

B) Evaluate each function. Round your answer to the nearest tenth.

1) $f(x) = 10 - \frac{3}{4}x \cdot \left(\frac{4}{9}\right)^x$

2) $f(x) = 5 \cdot (\sqrt{1.2})^{-x}$; $x = -2$

C) If $f(x) = 2.3 \cdot (4)^{1-x} - 1.4$

Round your answer to the nearest tenth.

1) $f(0) =$ _____

3) $f\left(-\frac{3}{2}\right) =$ _____

D) If $f(x) = \left(\frac{1}{2}\right)^{-4x} - \frac{1}{6}$; find

1) $f\left(\frac{1}{4}\right) - \frac{1}{2}f(-1) =$ _____

3) $3f(0) + f\left(\frac{1}{2}\right) =$ _____

4) $\frac{5f(0)}{2f(-1)} =$ _____

E) What is the value of $f(5)$, if $f(x) = 12x - 5 \cdot (8.4)^{0.2x}$?

i) 60

ii) -42

iii) 18

iv) 102

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