

Evaluating Rational Functions

A) Evaluate each function at the specified value.

1) $f(x) = \frac{7}{2x - 4}$; $x = -2$

2) $f(x) = \frac{x - 6}{x + 4}$; $x = 1$

B) Evaluate each function.

1) $f(x) = \frac{x^2 - 8x}{3x + 15}$; find

find $f(0)$

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C) If $f(x) = \frac{10x}{-x - 5}$; find

1) $f(-8) =$ _____

3) $f(9) =$ _____

D) If $f(x) = \frac{x + 1}{(x - 2)(x + 3)}$

1) $4f(-2) + 8f(-4) =$ _____

3) $\frac{-6f(-6)}{f(5)} =$ _____

4) $7f(4) \times 3f(0) =$ _____

E) What is the value of $f(-3)$, if $f(x) = \frac{9}{x^2 + 6}$?

i) $\frac{3}{5}$

ii) $-\frac{3}{5}$

iii) -9

iv) 3