

Evaluating Rational Functions

A) Evaluate each function at the specified value.

1) $f(x) = \frac{8x}{x-5}$; $x = 4$

2) $f(x) = \frac{-x-7}{x^2-9}$; $x = -1$

B) Evaluate each function.

1) $f(x) = \frac{x^2 + 7x + 10}{x^2 - 16}$;

find $f(-6)$

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C) If $f(x) = \frac{5x-4}{12+x}$; find

1) $f(5) =$ _____

3) $f(0) =$ _____

D) If $f(x) = \frac{-4x^2 + 9x}{10x}$; find

1) $3f(5) \times 2f(-4) =$ _____

3) $2f(-1) - 8f(3) =$ _____

4) $\frac{f(7)}{f(-2)} =$ _____

E) What is the value of $f(-3)$, if $f(x) = \frac{(x+1)(x-3)}{x-15}$?

i) $\frac{2}{3}$

ii) $-\frac{2}{3}$

iii) -2

iv) $-\frac{3}{2}$