

Evaluating Rational Functions

A) Evaluate each function at the specified value.

1) $f(x) = \frac{5x + 4}{9x + 3}$; $x = 2$

2) $f(x) = \frac{x^2 + 25}{x^2 - 9x - 10}$; $x = 0$

B) Evaluate each function.

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

find $f(7)$

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C) If $f(x) = \frac{x + 1}{(x + 8)^2}$; find

1) $f(-6) =$ _____

3) $f(1) =$ _____

D) If $f(x) = \frac{x}{6 - x}$; find

1) $\frac{5f(-8)}{2f(4)} =$ _____

3) $-6f(-6) + 7f(-1) =$ _____

4) $8f(-10) - 3f(0) =$ _____

E) What is the value of $f(-4)$, if $f(x) = \frac{x + 7}{2x}$?

i) $-\frac{11}{8}$

ii) $-\frac{1}{8}$

iii) $-\frac{3}{8}$

iv) 2