

Evaluating Rational Functions

A) Evaluate each function at the specified value.

1) $f(x) = \frac{5+x}{x}$; $x = -9$

2) $f(x) = \frac{-3}{2x-8}$; $x = 7$

B) Evaluate each function.

1) $f(x) = \frac{x+3}{x+14}$; find f

find $f(-5)$

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C) If $f(x) = \frac{3x^2 - 12x}{x^2 - 8x + 16}$

1) $f(6) =$ _____

3) $f(-4) =$ _____

D) If $f(x) = \frac{5x+8}{x-1}$; find

1) $-8f(-7) - 6f(-2) =$ _____

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

4) $-3f(4) + 9f(10) =$ _____

E) What is the value of $f(5)$, if $f(x) = \frac{-6x}{x+25}$?

i) $\frac{6}{5}$

ii) -1

iii) $-\frac{6}{5}$

iv) -6

Evaluating Rational Functions

A) Evaluate each function at the specified value.

$$1) f(x) = \frac{5+x}{x}; x = -9$$

$$\underline{\underline{\frac{4}{9}}}$$

$$2) f(x) = \frac{-3}{2x-8}; x = 7$$

$$\underline{\underline{-\frac{1}{2}}}$$

B) Evaluate each function.

$$1) f(x) = \frac{x+3}{x+14}; \text{ find } f$$

$$\underline{\underline{\frac{3}{14}}}$$

find $f(-5)$

$$\underline{\underline{3}}$$

$$C) \text{ If } f(x) = \frac{3x^2 - 12x}{x^2 - 8x + 16}$$

$$1) f(6) = \underline{\underline{\quad}}$$

$$\underline{\underline{-9}}$$

$$3) f(-4) = \underline{\underline{\quad}}$$

$$\underline{\underline{\frac{3}{5}}}$$

$$D) \text{ If } f(x) = \frac{5x+8}{x-1}; \text{ find}$$

$$1) -8f(-7) - 6f(-2) = \underline{\underline{\quad}}$$

$$= \underline{\underline{\frac{18}{11} \text{ or } 1\frac{7}{11}}}$$

$$3) f(0) \times 4f(-3) = \underline{\underline{-56}}$$

$$4) -3f(4) + 9f(10) = \underline{\underline{30}}$$

E) What is the value of $f(5)$, if $f(x) = \frac{-6x}{x+25}$?

$$i) \frac{6}{5}$$

ii) -1

$$iii) -\frac{6}{5}$$

$$iv) -6$$

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