

# Evaluating Rational Functions

A) Evaluate each function at the specified value.

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

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

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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)  $-6$

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