

# Evaluating Rational Functions

A) Evaluate each function at the specified value.

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

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

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B) Evaluate each function.

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

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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

