

# Evaluating Rational Functions

A) Evaluate each function at the specified value.

1)  $f(x) = \frac{-10}{6 - 9x^2}$  ;  $x = -3$

2)  $f(x) = \frac{x^2 - 4}{8x}$  ;  $x = 6$

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B) Evaluate each function.

1)  $f(x) = \frac{4x + 5}{13 - x}$  ; find

find  $f(2)$

\_\_\_\_\_

\_\_\_\_\_

C) If  $f(x) = \frac{x^2}{7x + 18}$  ; find

1)  $f(-4) =$  \_\_\_\_\_

3)  $f(3) =$  \_\_\_\_\_

D) If  $f(x) = \frac{-6x}{4 - x^2}$  ; find

1)  $-2f(-5) + f(1) =$  \_\_\_\_\_

3)  $\frac{4f(-1)}{f(8)} =$  \_\_\_\_\_

4)  $3f(0) - 7f(-6) =$  \_\_\_\_\_

E) What is the value of  $f(4)$ , if  $f(x) = \frac{-16 - 5x^2}{-4x}$  ?

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

ii) 16

iii) -9

iv) 6

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