

**Reading Questions for Section 2.1 and 2.2**

(9 pts)

Name \_\_\_\_\_

Due Date: \_\_\_\_\_

Bring this completed sheet with you to class on the due date to be handed in at the very beginning of the period.

1. Carefully reread the house painting example back in **Section 1.1 Example 2**. What is  $f(20,000)$ ?  
(1) (SELECT ONE)
- A. It's 20,000 gallons of paint
  - B. It's the number of gallons you need to paint 20,000 ft<sup>2</sup> of house.
  - C. It's 20,000 houses to paint.
  - D. It's 20,000 ft<sup>2</sup> of house to paint.
- (1) 2. In Section 2.1, Example 4, what is the value of  $h(-2)$ ? \_\_\_\_\_
- (1) 3. The value of  $-2$  is in the range of  $f(x)$  in **Section 2.1, Example 6**.
- A. True
  - B. False
- (1) 4. Which of these is **NOT** a real number? (Select **ALL** possible answers.)
- A. The square root of 2
  - B. The square root of 0
  - C. The square root of  $-2$
  - D. 1 divided by 0
  - E. 0 divided by 1
  - F. The cubed root of 2
  - G. The cubed root of 0
  - H. The cubed root of  $-2$
- (1) 5. The domain is the set of ...
- A. monotonic values
  - B. input values
  - C. diatonic values
  - D. output values.
- (1) 6. The range is the set of ...
- A. monotonic values
  - B. input values
  - C. diatonic values
  - D. output values.
- (2) 7. Read **Example 4 in Section 2.2** carefully.
- i. Why it is not possible for  $g(x)$  to equal 0? \_\_\_\_\_  
(Choose from the choices A through D to the right.)
  - ii. Why it is not possible for  $x$  to equal 0? \_\_\_\_\_  
(Choose from the choices A through D to the right.)
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- A. Any fraction  $\frac{a}{b}$  is undefined if  $a = 0$ .
  - B. Any fraction  $\frac{a}{b} = 0$  if and only if  $a = 0$ .
  - C. Any fraction  $\frac{a}{b}$  is undefined if  $b = 0$ .
  - D. Any fraction  $\frac{a}{b} = 0$  if and only if  $b = 0$ .
- (1) 8. Why did they restrict the domain in **Section 2.2, Example 2**?
- A. It's for mature audiences only.
  - B. Chirp rate is nonnegative and noninfinite.
  - C. All the crickets died.
  - D. It pertained to certain species of cricket.
  - E. Crickets make lousy house pets.