

Name: \_\_\_\_\_

Section: \_\_\_\_\_

**MATH 120A**  
**QUIZ 5**  
February 13, 2003

You may use a calculator to complete this quiz. No notes please. Show all work.

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1. (5 points) What is the maximum value of the function  $5 + \frac{1}{4} \sin(2x)$ ? Explain your answer.
  
  
  
  
  
  
  
  
  
  
2. (5 points) You are riding a bicycle along a level road. The rear wheel has radius 15 inches. The rear sprocket has radius 2 inches. The front sprocket has radius 6 inches. How fast do you travel (in feet per second) if you pedal turning the front sprocket 90 revolutions per minute?

