Ν	am	e
Ν	am	e

.

## **CALCULUS JOURNAL RELATED RATES**

1.	Related	rate	problems	are s	o named	because

2. To convert the original equation to an equation involving rates, you must

by using .

- 3. When setting up related rate problems, variables should be used to label while numbers should be used to label
- 4. How do you determine whether to reduce the number of variables in a problem before taking the derivative or to use all variables in the original formula?
- 5. Problems which involve the rate at which an angle is changing usually require the use of

to set up the initial equation.

- 6. The volume of a prism is found by \_\_\_\_\_\_
- 7. The geometric concept of \_\_\_\_\_\_ can be used to create a relationship between

two variables which do not have a direct relationship (such as the width and depth of a trough).

- 8. List and describe three common errors to avoid when working related rate problems.
  - 1.
  - 2.

  - 3.
- 9. Write a series of steps for solving related rate problems.