

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

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

**BLM 6-10**

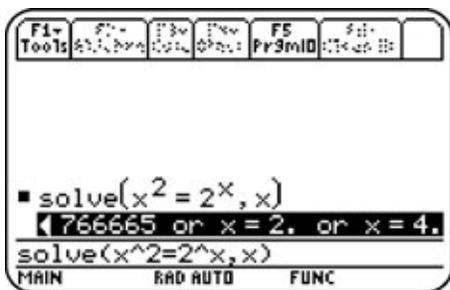
## Section 6.6 Using a Computer Algebra System

A computer algebra system (CAS) can be used to determine a solution for question C2 in Communicate Your Understanding.

**C2.** Is there a positive value of  $x$  at which the graphs of  $y = x^2$  and  $y = 2^x$  cross? If so, find the value. If not, explain why not.

### Method

- Turn on the CAS. If necessary, press the **HOME** key.
- Clear the CAS variables by pressing **2nd**, then **F1**, to access the **F6** menu. Select **2:NewProb**. Press **ENTER**. This procedure will clear any values that a previous user or user has assigned to variables.
- From the **F2** menu, select **1:solve(**.
- Type  $x^2 = 2^x, x$  )
- Press **ENTER**.
- Wait a few seconds. The CAS will display all the possible answers.



Note that there are three possible answers. Consider each of these in turn, and determine whether they meet the requirements of the question.

**Technology Note:** You may need to scroll horizontally to see all answers.