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

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

**Warm up 4.3, 4.4 SHOW YOUR WORK!!!**

Solve the following problems by hand, use graphing calculator to check:

1. Expand the following expression.

2. The percentage of students in a class who can recall important features of a classroom lecture over time is modeled by the function

where is the percentage of students and is the number of days after the lecture.

Identify the variables.

a) What is the domain and what does it mean in the context of this problem?

b) What percentage of the students will recall important features day after a lecture?

c) After how many days will only half the students recall important information?