Growing Patterns

1. Look at the pattern. Describe the changes from the first line through the fourth line in the pattern.

   _____

   _____

   _____

   _____

Patterns

$9 \times 9 = 81$
$99 \times 99 = 9{,}801$
$999 \times 999 = 998{,}001$
$9{,}999 \times 9{,}999 = 99{,}980{,}001$

2. Write the next two lines in the number pattern.

   _____

   _____

3. Write the tenth line in the number pattern.

   _____

   _____

4. Look at the pattern. Describe the changes from the first line through the fourth line in the pattern.

   _____

   _____

   _____

$1 \times 1 = 1$
$11 \times 11 = 121$
$111 \times 111 = 12{,}321$
$1{,}111 \times 1{,}111 = 1{,}234{,}321$

   _____

   _____

5. Write the next three lines in the number pattern.

   _____

   _____

   _____