HW 4-1
Secondary Math 3 Lite
Find the next 3 terms in the patterns and fill out all other information.
1.

| Term | 0 | 1 | 2 | 3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Value | 2 | 4 | 8 | 16 |  |  |  |

Initial Value: $\qquad$ Common Factor: $\qquad$
Recursive: $\qquad$
$\qquad$
Explicit:

Name: $\qquad$
Period: $\qquad$

What is the value at term 8 ? $\qquad$
2.

| Term | 0 | 1 | 2 | 3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Value | 5 | 25 | 125 | 625 |  |  |  |

Initial Value: $\qquad$ Common Factor: $\qquad$
Recursive: $\qquad$ Explicit: $\qquad$
What is the value at term 10 ? $\qquad$
3.

| Term | -3 | -2 | -1 | 0 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Value | 4 | 16 | 64 | 256 |  |  |  |

Initial Value: $\qquad$
Recursive: $\qquad$

Common Factor: $\qquad$
Explicit: $\qquad$
What is the value at term 8 ? $\qquad$

Determine the $8^{\text {th }}$ term in each sequence
4. $1,5,25, \ldots$
5. $9,27,81$,
6. During the fall of 2012 there was an outbreak of a new strand of flu in the United States. In the first week there were 27 cases, second week 81 cases, and third week 243.
a. Write an explicit equation to represent the growth of this flu strand.
b. How many cases of the flu will be present after 6 weeks?

