Tower of Hanoi:

1) use an applet to try to solve the problem using different number of discs:

http://vornlocher.de/tower.html

2) Determine the minimum number of moves needed to move 10 discs to another peg.

3) Investigate the relationship between the number of discs and the minimum number of moves need to move all discs to the final peg.

4) Determine a formula (or general term) to model this sequence.

1) Determine the next three terms in the following sequence:

1, 8, 16, 26, 39, 56, 78,...

2) Determine the general term for the following sequence:

5, 14, 41, 122, 365, 1094, 3281,...

(note: you may need to think recursively)

3) Determine the general term for the following sequence:

3/4, 5/9, 7/16, 9/25, 11/36,...

$\frac{3}{4}, \frac{5}{9}, \frac{7}{16}, \frac{9}{25}, \frac{11}{36}, \ldots$

Practice: pg. 439:

L3 #1 - 7

L4: #9 -11

Oct 28-1:07 PM