Handout : Your Sequence Goes to College

1. Find the explicit rule for the sequence $1, 4, 7, 10, ...$

2. Find the explicit rule for the sequence $-2, -4, -6, -8, ...$

3. Find the recursive rule for the sequence $6, 11, 16, 21, ...$

4. Find the recursive rule for the sequence $1, -1, -5, -13, -29, ...$

5. Find a_{17} for the sequence $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, ...$

6. Find a_9 for the sequence $7, 6, 5, 4, ...$

7. List the first 4 terms of the sequence given by $\{a_n\} = -2(a_{n-1})$ whose first term is -4.

8. If 2 is the first term, write the first 4 terms of the sequence $\{a_n\} = 3(a_{n-1}) + 7$.

9. Write the first 5 terms of the sequence $\{a_n\} = 5(n-1)$.

10. Write the first 4 terms of the sequence $\{a_n\} = 3^n + 1$.