Handout: Your Sequence Goes to College

- 1. Find the explicit rule for the sequence $1, 4, 7, 10, \dots$
- 6. Find a_9 for the sequence $7, 6, 5, 4, \dots$
- 2. Find the explicit rule for the sequence $-2, -4, -6, -8, \dots$
- 7. List the first 4 terms of the sequence given by $\{a_n\} = -2(a_{n-1})$ whose first term is -4.
- 3. Find the recursive rule for the sequence $6, 11, 16, 21, \dots$
- 8. If 2 is the first term, write the first 4 terms of the sequence $\{a_n\} = 3(a_{n-1}) + 7$.
- 4. Find the recursive rule for the sequence $1, -1, -5, -13, -29, \dots$
- 9. Write the first 5 terms of the sequence $\{a_n\} = 5(n-1)$.
- 5. Find a_{17} for the sequence $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots$
- 10. Write the first 4 terms of the sequence $\{a_n\} = 3^n + 1$.

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