# TOPIC 9-2: Independent Practice & Application

1. For each arithmetic sequence, write the next four terms.
2. 
3. 
4. 
5. For each of the following arithmetic sequences, determine both the recursion formula and the general rule for the *n*th term.
6. 
7. 
8. 
9. For each of the following sequences, determine the indicated arithmetic means.

7. 

1. 
2. Determine each arithmetic series. Use the graphing calculator to verify your sum.
   1. The sum of the first 38 terms of the sequence: 
   2.  for the series 
   3. 

E. Solve each problem.

12. Determine the first five terms of the arithmetic sequence having these values:



1. You are considering two job offers. Company 1 offers a starting salary of $25,000 per year, and guarantees a raise of $1,500 each year. Company 2 offers a starting salary of $31,000, but guarantees a raise of only $1,000 each year.
   1. Determine the total salary paid by each company in 15 years.
   2. Which company offers the best 15-year salary package.