Mid-Chapter Review

Arithmetic Sequences

1.	ter	e first term of an arithmetic sequence is -32, and the sequences increases by 5 from m to term. Write the general term, in simplified form.
	b.	Write the recursive formula.
2.		e first three terms of an arithmetic sequence are 7, 3, -1. Determine the 17th term of the sequence.
	b.	Write the recursive formula.
3.		e 7th term of an arithmetic sequence is 35 and the 13th term is 77. Write the general term.
	b.	Use your general term to find the 100th term.

Geometric Sequences

1.	The first term of a geometric sequence is 64, and the second term is 32. a. Write the general term.
	b. Write the recursive formula.
2.	The first three terms of a geometric sequence are 4, 12, 36. a. Determine the 17 th term of the sequence.
	b. Write the recursive formula.
3.	The 5^{th} term of a geometric sequence is 256 and the 10^{th} term is 262,144. a. Write the general term.
	b. Use your general term to find the 7 th term.

Mixed Sequences

1. Given the sequence below

a. Determine the next 3 terms.

b. Write the recursive formula.

2. Given the sequence below

a. Determine the next 3 terms.

b. Write the recursive formula.

3. Given the sequence below

$$\frac{3}{2}, \frac{6}{5}, \frac{9}{10}, \frac{12}{17}, \frac{15}{26}, \frac{18}{37}$$

a. Determine the next 3 terms.

b. Write the general term.

c. Use your general term to determine the 10^{th} term.