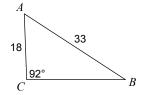
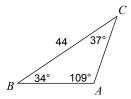
Trig, Sequence, & Financial Review

Find each measurement indicated. Round your answers to the nearest tenth.

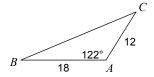
1) Find $m \angle B$



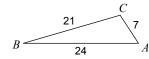
2) Find AB



3) Find BC



4) Find $m \angle A$



For each sequence, state if it is arithmetic, geometric, or neither.

Find the first four terms in each sequence.

7)
$$a_n = 7 - 3n$$

8)
$$a_n = -4 \cdot 5^{n-1}$$

Find the tenth term in each sequence.

9)
$$a_n = -5 + 2n$$

10)
$$a_n = -2.5 \cdot (-4)^{n-1}$$

Find the explicit formula for the given arithmetic sequence.

Find the explicit formula for the given geometric sequence.

Use a formula to evaluate each arithmetic series described.

15)
$$\sum_{n=1}^{13} (3n-13)$$

16) The sum of the first 10 terms of 29, 38, 47, ...

Use a formula to evaluate each geometric series described.

- 17) The sum of the first 8 terms of 4, -20, 100, ...
- 18) The sum of the first 5 terms of -2, -1, $-\frac{1}{2}$, ...

Find the indicated amount to the nearest penny.

- 19) Jill invests \$5,393 in a savings account with a fixed annual interest rate of 8% compounded 2 times per year. What will the account balance be after 10 years?
- 20) Ndiba invests a sum of money in a savings account with a fixed annual interest rate of 6% compounded 12 times per year. After 10 years, the balance reaches \$2,183.28. What was the amount of the initial investment?