Practice

Arithmetic Sequences as Linear Functions

Determine whether each sequence is an arithmetic sequence. Write yes or no. Explain.

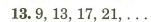
1. 21, 13, 5,
$$-3$$
, ...

Find the next three terms of each arithmetic sequence.

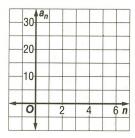
8.
$$-49, -35, -21, -7, \ldots$$
 9. $\frac{3}{4}, \frac{1}{2}, \frac{1}{4}, 0, \ldots$

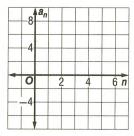
9.
$$\frac{3}{4}$$
, $\frac{1}{2}$, $\frac{1}{4}$, 0, . . .

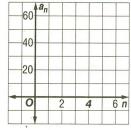
Write an equation for the nth term of each arithmetic sequence. Then graph the first five terms of the sequence.



14.
$$-5$$
, -2 , 1 , 4 , ...







- 16. BANKING Chem deposited \$115.00 in a savings account. Each week thereafter, he deposits \$35.00 into the account.
 - a. Write a function to represent the total amount Chem has deposited for any particular number of weeks after his initial deposit.
 - **b.** How much has Chem deposited 30 weeks after his initial deposit?
- 17. STORE DISPLAYS Tamika is stacking boxes of tissue for a store display. Each row of tissues has 2 fewer boxes than the row below. The first row has 23 boxes of tissues.
 - **a.** Write a function to represent the arithmetic sequence.
 - **b.** How many boxes will there be in the tenth row?