11-1 Practice
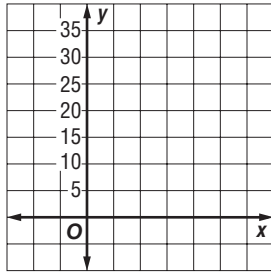
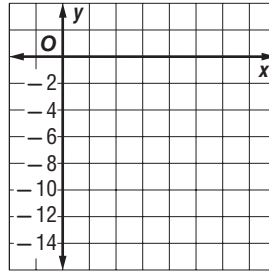## *Sequences as Functions*

Find the next four terms of each arithmetic sequence. Then graph the sequence.
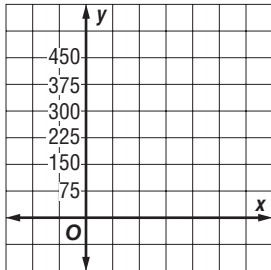
1. 5, 8, 11, …

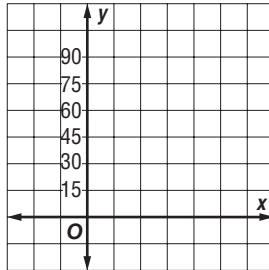
2. −4, −6, −8, …

Find the next three terms for each geometric sequence. Then graph the sequence.

3. $\frac{1}{10}, \frac{1}{2}, 2\frac{1}{2}$, …

4. 81, 27, 9, ...

Determine whether each sequence is *arithmetic*, *geometric*, or *neither*. Explain your reasoning.

5. 57, 456, 3648, 29,184 , …

6. −47, −37, −25, −13, ...

7. 4, 9, 16, 25, 36, ...

8. 824, 412, 206, 103, …

9. EDUCATION Trevor Koba has opened an English Language School in Isehara, Japan. He began with 26 students. If he enrolls 3 new students each week, in how many weeks will he have 101 students?

10. SALARIES Yolanda interviewed for a job that promised her a starting salary of $32,000 with a $1250 raise at the end of each year. What will her salary be during her sixth year if she accepts the job?