## Sec 1

Multiple Representations of Arith. \& Geo. Seq.
Unit 4

1. What are the differences between and arithmetic and geometric sequences?

Use the following information to complete the other representations of the sequence.
2.

3.

| Table: | Graph: |
| :---: | :---: |
| Recursive Equation: $f(1)=4 ; f(n)=f(n-1)+3$ | Explicit Equation: |
| Create a Context: |  |

Use the following information to complete the other representations of the sequence.
4.

5.


Use the following information to complete the other representations of the sequence.
6.

7.


Given the recursive equation, find the explicit equation.
8. $f(x)=f(x-1)+4 ; f(1)=-3$
10. $f(x)=f(x-1)-5 ; f(-3)=-2$
9. $f(x)=f(x-1) \cdot 2 ; f(1)=9$
11. $f(x)=\frac{1}{3} f(x-1) ; f(-4)=10$

Given the explicit equation, find the recursive equation.
12. $f(x)=6 \bullet 4^{x-5}$
14. $f(x)=-9 \bullet\left(\frac{1}{5}\right)^{x+8}$
13. $f(x)=-8 x+11$
15. $f(x)=3 x-8$

