

READY, SET, GO!

Name

Period

Date

READY

Topic: Comparing linear equations and arithmetic sequences

1. Describe the similarities and differences between linear equations and arithmetic sequences.

Similarities	Differences

SET

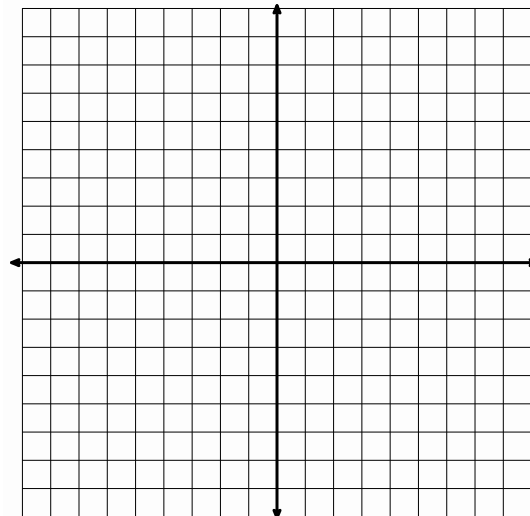
Topic: Representations of arithmetic sequences

Use the given information to complete the other representations for each arithmetic sequence.

2. **Recursive Equation:****Explicit Equation:**

Table	
Days	Cost
1	8
2	16
3	24
4	32

Create a context

Graph

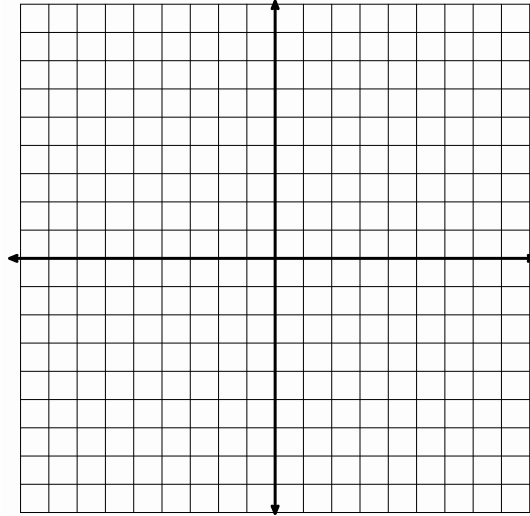
3. **Recursive Equation:** $f(1) = 4$, $f(n) = f(n - 1) + 3$

Explicit Equation:

Table

Create a context

Graph



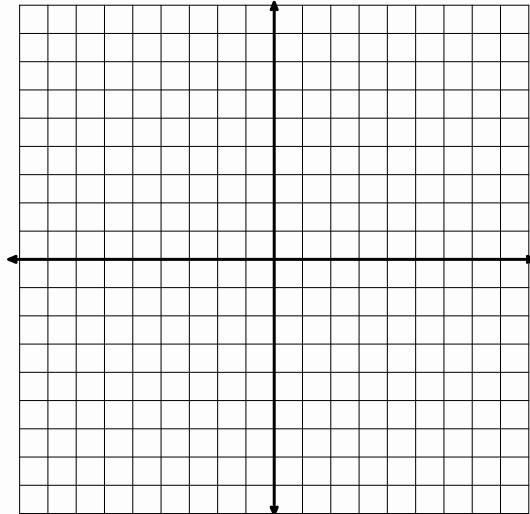
4. **Recursive Equation:**

Explicit Equation: $f(n) = 4 + 5(n - 1)$

Table

Create a context

Graph



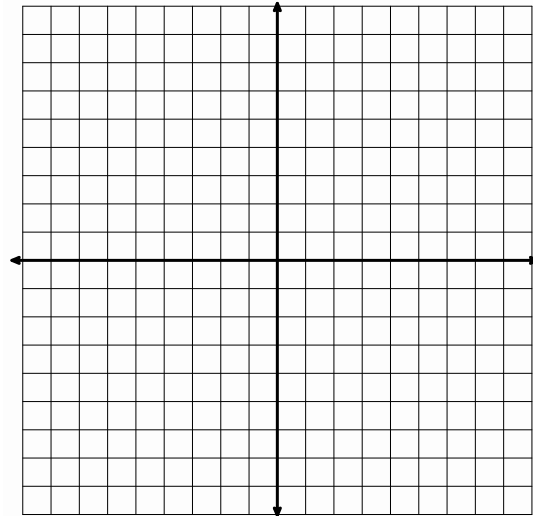
5. **Recursive Equation:****Explicit Equation:**

Table

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Create a context

Janet wants to know how many seats are in each row of the theater. Jamal lets her know that each row has 2 seats more than the row in front of it. The first row has 14 seats.

Graph**GO**

Topic: Writing explicit equations

Given the recursive equation for each arithmetic sequence, write the explicit equation.

6. $f(n) = f(n - 1) - 2; f(1) = 8$

7. $f(n) = 5 + f(n - 1); f(1) = 0$

8. $f(n) = f(n - 1) + 1; f(1) = \frac{5}{3}$