

READY, SET, GO!

Name

Date

READY

Topic: Comparing linear equations and arithmetic sequences

1. Describe similarities and differences between geometric and arithmetic sequences.

Similarities	Differences

SET

Topic: representations of arithmetic sequences

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

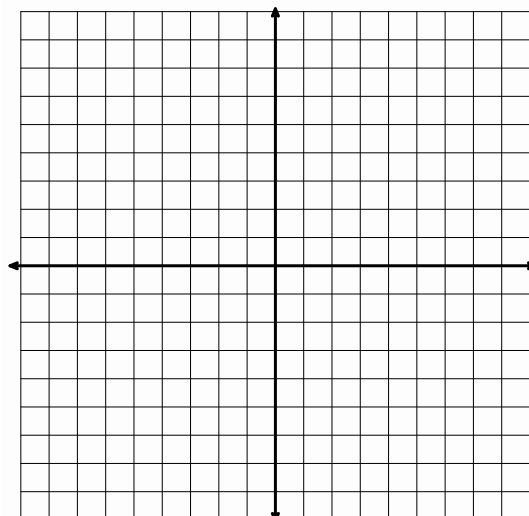
2. **Recursive Equation:**

Explicit Equation:

Days	Cost
1	8
2	16
3	24
4	32

Create a context

Graph



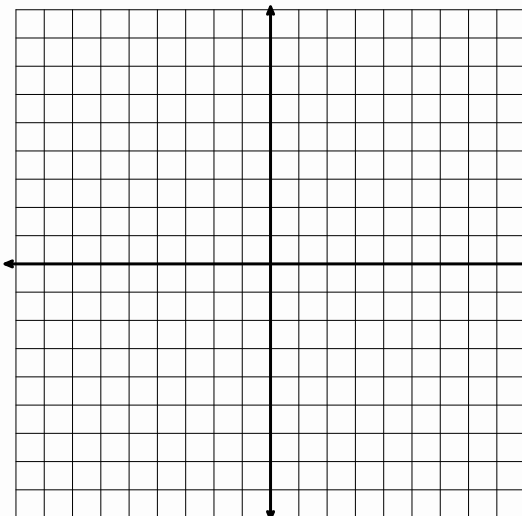
3. **Recursive Equation:** $f(1) = 4, f(n) = f(n - 1) \cdot 3$

Explicit Equation:

Table

Create a context

Graph



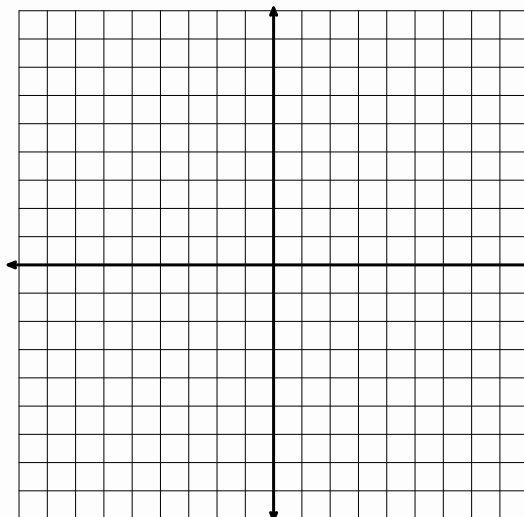
4. **Recursive Equation:**

Explicit Equation: $f(n) = 4 \cdot 5^{(n-1)}$

Table

Create a context

Graph



5. **Recursive Equation:**

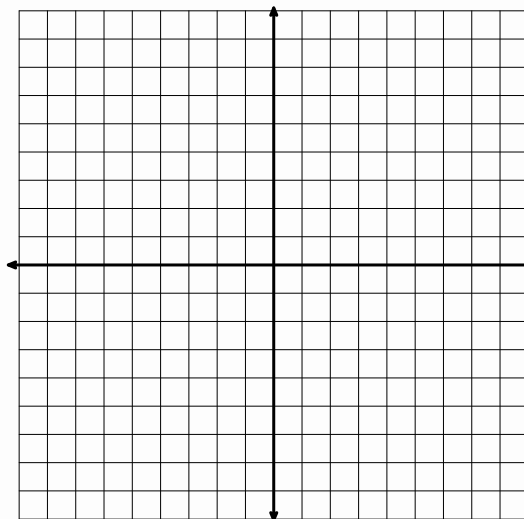
Explicit Equation:

Table

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 sequence, write the explicit equation.

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

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

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