Ready, Set, Go!



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Ready

Topic: Comparing linear equations and arithmetic sequences

1. Describe 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

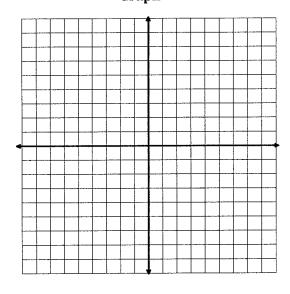
 2
 16

 3
 24

 4
 32

Create a context

Graph



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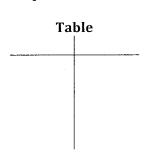


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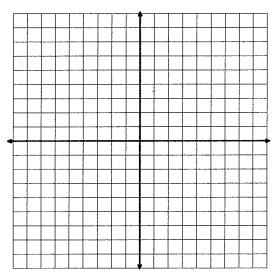
3. **Recursive Equation:** f(1) = 4, f(n) = f(n-1) + 3

Graph

Explicit Equation:

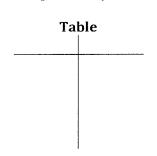


Create a context

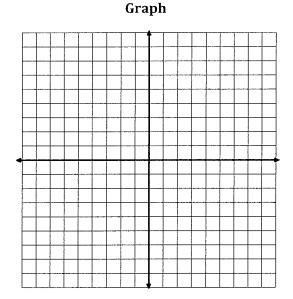


4. Recursive Equation:

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



Create a context



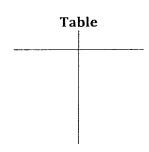
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5. **Recursive Equation:**

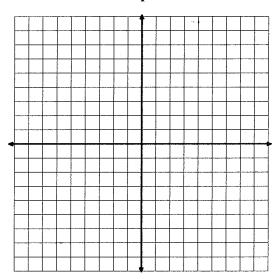
Explicit Equation:



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.





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

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