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## Explicit Expressions and Recursive Processes - Guided Lesson Explanation

## Explanation\#1

The recursive formula is given as:
$\mathrm{t}_{1}=0$
$t_{n}=t_{n-1}-3$
$\mathrm{t}_{\mathrm{n}}=$ the $\mathrm{n}^{\text {th }}$ term in the sequence, $\mathrm{d}=$ the common difference
$\mathrm{t}_{1}=$ the $1^{\text {st }}$ term in the sequence, n the term number
So the explicit formula is
$t_{n}=t_{1}+d(n-1)$
$\left.t_{n}=-3(n-1)\right)$

## Explanation\#2

The explicit formula is given as:
$t_{n}=3 n-1$
$\mathrm{t}_{\mathrm{n}}=$ the $\mathrm{n}^{\text {th }}$ term in the sequence, $\mathrm{d}=$ the common difference
$\mathrm{t}_{1}=$ the $1^{\text {st }}$ term in the sequence, n the term number
So recursive formula is
$\mathrm{t}_{1}=2$
$t_{n}=t_{(n-1)}+3$

## Explanation\#3

Explicit formula $=a_{n}=3^{n}$
Recursive formula $=$
$a_{1}=3$
$a_{n}=3 a_{n-1}$

