

Recursive Definitions of Sets

Basis: $6 \in S, 15 \in S$

Recursive: If $x, y \in S$ then $x + y \in S$

Basis: $\begin{bmatrix} 1 \\ 1 \\ 0 \end{bmatrix} \in S \quad \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix} \in S$

Recursive: if $x \in S$, then $\alpha x \in S$ for all $\alpha \in \mathbb{R}$.

If $x, y \in S$ then $x + y \in S$.

Write a recursive definition of $\{x: x = 3^i \text{ for some } i \in \mathbb{N}\}$.

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