Isla Globus-Harris
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Set Addition

Definition:

Let $S, T \subseteq \mathbb{R}^n$. Then $S + T$ is defined as:

$S + T = \{x + y | x \in S, y \in T\}$

Example 1:

$S = \{1, 2, 3\}$ and $T = \{0, 10\}$.

Then $S + T = \{1, 2, 3\} + \{0, 10\} = \{1, 2, 3, 11, 12, 13\}$.

Example 2:

$S = [0, 1]$ and $T = [0, 2]$

Then $S + T = [0, 1] + [0, 2] = [0, 3]$.