Which of the following are (recursive) definitions of the set of integers \mathbb{Z} ? (Select True/False for each one.)

1. Basis Step: $5 \in \mathbb{Z}$

Recursive Step: If $x \in \mathbb{Z}$, then $x + 1 \in \mathbb{Z}$ and $x - 1 \in \mathbb{Z}$

2. Basis Step: $0 \in \mathbb{Z}$

Recursive Step: If $x \in \mathbb{Z}$, then $x + 1 \in \mathbb{Z}$ and $x - 1 \in \mathbb{Z}$ and $x + 2 \in \mathbb{Z}$ and $x - 2 \in \mathbb{Z}$

3. Basis Step: $0 \in \mathbb{Z}$

Recursive Step: If $x \in \mathbb{Z}$, then $x + 2 \in \mathbb{Z}$ and $x - 1 \in \mathbb{Z}$

4. Basis Step: $0 \in \mathbb{Z}$

Recursive Step: If $x \in \mathbb{Z}$, then $x + 1 \in \mathbb{Z}$ and $x + 2 \in \mathbb{Z}$