$$A_1 = \{x \in \mathbb{R}^{\mathbb{N}} : x = (0, \dots, 0, x_{n+1}, x_{n+2}, \dots)\}$$

$$A_2 = \{x \in \mathbb{R}^{\mathbb{N}} : x = (x_1, \dots, x_n, 0, 0, \dots)\}$$

$$A_3 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{i \to \infty} x_i = a\} \text{ for } a \in \mathbb{R}$$

$$A_4 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{k \to \infty} \tfrac{1}{k} \sum_{i=1}^{k} x_i = a\} \text{ for given } a \in \mathbb{R}$$

$$A_5 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{i \to \infty} x_{2i} = a\} \text{ for given } a \in \mathbb{R}$$

$$A_6 = \{x \in \mathbb{R}^{\mathbb{N}} : x_{2k} = 0 \text{ up to finitely many } k\}$$

$$A_7 = \{x \in \mathbb{R}^{\mathbb{N}} : x_{n+5} = a\} \text{ for given } a \in \mathbb{R}$$

$$A_8 = \{x \in \mathbb{R}^{\mathbb{N}} : x_i \in \mathbb{N} \ \forall i \in \mathbb{N}\}$$

$$A_9 = \{x \in \mathbb{R}^{\mathbb{N}} : x_1 + \cdots + x_n = a\} \text{ for given } a \in \mathbb{R}$$

$$A_{10} = \{x \in \mathbb{R}^{\mathbb{N}} : \sum_{i=1}^{\infty} x_i = a\} \text{ for given } a \in \mathbb{R}$$

$$A_{11} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} \sum_{i=1}^{k} x_i = a\} \text{ for given } a \in \mathbb{R}$$

$$A_{12} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} \sum_{i=1}^{k} x_i \geq 0\}$$

$$A_{13} = \{x \in \mathbb{R}^{\mathbb{N}} : \sum_{i=1}^{\infty} x_i < \infty\}$$

$$A_{14} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} x_i = \infty\}$$

$$A_{15} = \{(0, 0, 0, \dots)\}$$

$$A_1 = \{x \in \mathbb{R}^{\mathbb{N}} : x = (0, \ldots, 0, x_{n+1}, x_{n+2}, \ldots)\} \qquad \in \mathcal{S}_n \setminus \mathcal{S}_{n+1}$$

$$A_2 = \{x \in \mathbb{R}^{\mathbb{N}} : x = (x_1, \ldots, x_n, 0, 0, \ldots)\} \qquad \in \mathcal{T}_n \setminus \mathcal{T}_{n+1}$$

$$A_3 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{i \to \infty} x_i = a\} \text{ for } a \in \mathbb{R} \qquad \in \mathcal{I}$$

$$A_4 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{k \to \infty} \tfrac{1}{k} \sum_{i=1}^{k} x_i = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{I}$$

$$A_5 = \{x \in \mathbb{R}^{\mathbb{N}} : \lim_{i \to \infty} x_{2i} = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{T}_n \setminus \mathcal{I}$$

$$A_6 = \{x \in \mathbb{R}^{\mathbb{N}} : x_{2k} = 0 \text{ up to finitely many } k\} \qquad \in \mathcal{T} \setminus \mathcal{I}$$

$$A_7 = \{x \in \mathbb{R}^{\mathbb{N}} : x_{n+5} = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{S}_n$$

$$A_8 = \{x \in \mathbb{R}^{\mathbb{N}} : x_i \in \mathbb{N} \;\; \forall i \in \mathbb{N}\} \qquad \in \mathcal{S} \setminus \mathcal{T}$$

$$A_9 = \{x \in \mathbb{R}^{\mathbb{N}} : x_1 + \cdots + x_n = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{S}_n \setminus \mathcal{T}_n, \in \mathcal{S}_n \setminus \mathcal{S}_{n+1}$$

$$A_{10} = \{x \in \mathbb{R}^{\mathbb{N}} : \sum_{i=1}^{\infty} x_i = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{S} \setminus \mathcal{T}$$

$$A_{11} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} \sum_{i=1}^{k} x_i = a\} \text{ for given } a \in \mathbb{R} \qquad \in \mathcal{S} \setminus \mathcal{T}$$

$$A_{12} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} \sum_{i=1}^{k} x_i \geq 0\} \qquad \in \mathcal{S} \setminus \mathcal{T}$$

$$A_{13} = \{x \in \mathbb{R}^{\mathbb{N}} : \sum_{i=1}^{\infty} x_i < \infty\} \qquad \in \mathcal{I}$$

$$A_{14} = \{x \in \mathbb{R}^{\mathbb{N}} : \limsup_{k \to \infty} x_i = \infty\} \qquad \in \mathcal{I}$$

$$A_{15} = \{(0, 0, 0, \ldots)\} \qquad \in \mathcal{S} \setminus \mathcal{T}$$