$$T = \left\{ x \in \mathbb{N} \mid \frac{3x-1}{2x+3} \in \mathbb{N} \right\}$$

$$\frac{3x-1}{2x+3} \in \mathbb{N} \iff (2x+3) \mid (3x-1) \implies (2x+3) \mid (3x-1)\cdot 2 \iff$$

$$\begin{cases} 9 + ? = -2 \\ ? = -2 - 9 \\ ? = -11 \end{cases}$$

$$(2x+3) \mid (6x-2) \iff \frac{6x-2}{2x+3} \in \mathbb{N}$$

$$\frac{6x-2}{2x+3} = \frac{3\cdot 2x + 3\cdot 3 - 11}{2x+3} = \frac{3(2x+3) - 11}{2x+3} = \frac{3(2x+3)}{2x+3} - \frac{11}{2x+3} = 3 - \frac{11}{2x+3} \in \mathbb{N}$$

$$\implies \frac{11}{2x+3} \in \mathbb{N} \implies (2x+3) \mid 11 \iff (2x+3) \in \{1, -1, 11, -11\} \iff$$

$$2x + 3 = -11$$
$$2x = -11 - 3$$
$$2x = -14$$
$$x = -\frac{14}{2}$$
$$x = -7$$

$$2x \in \{-2; -4; 8; -14\} \iff$$

$$x \in \{-1, -2, 4, -7\}$$

$$E(x) = \frac{6x-2}{2x+3} \implies$$

| x | -1 | -2 | 4 | -7 |
|------|------|------|------|------|
| E(x) | -8 | 14 | 2 | 4 |

$$T = \{4\} \qquad P = x \in \mathbb{Z} \mid E(x) \in \mathbb{Z} = \{-1, -2, 4, -7\}$$

$$D = \{x \in \mathbb{Z} \mid E(x) \in \mathbb{N}\} = \{-2, 4, -7\}$$

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