

1.  $S = \{(u, v) \in \mathbb{R}^2 : 0 \leq u \leq 3, 0 \leq v \leq 2\}; x = 2u + 3v, y = u - v$

▪  $v = 0 \wedge u = 0 \Rightarrow (x, y) = (0, 0)$

▪  $v = 2 \wedge u = 3 \Rightarrow (x, y) = (12, 1)$