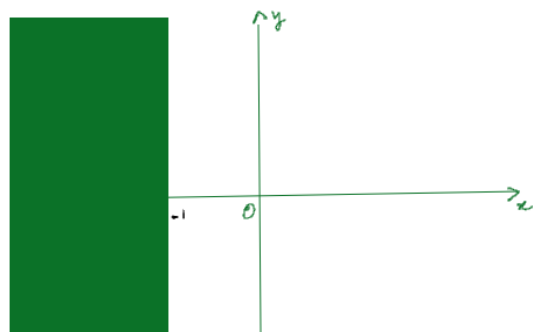
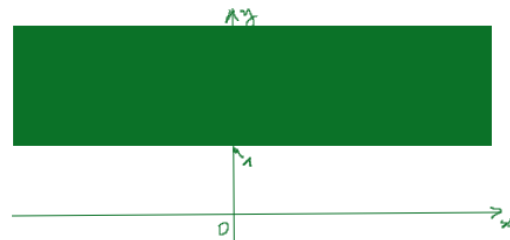


Plane regions -

Describe the shaded region.



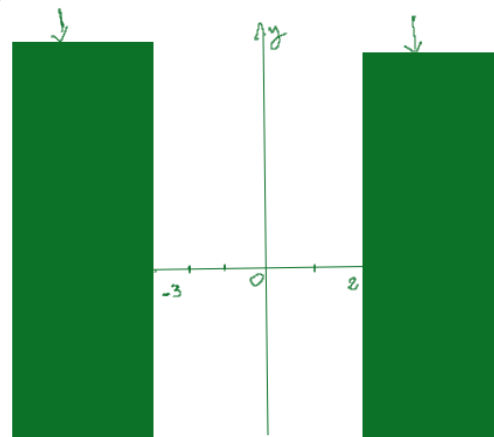
$$E = \{(x, y) \in \mathbb{R}^2 : x \leq -1\}$$



$$E = \{(x, y) \in \mathbb{R}^2 : y \geq 1\}$$

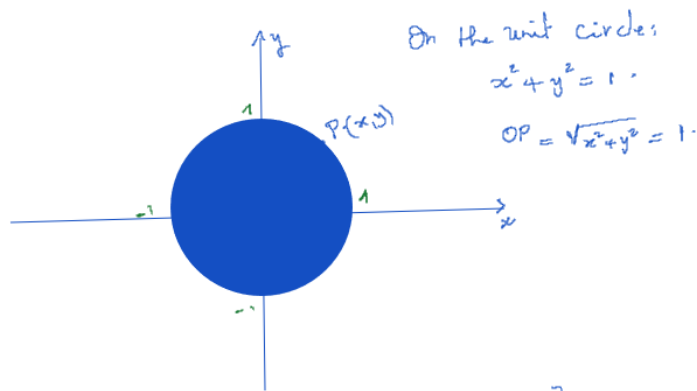
$$E_1 = \{(x, y) : x \leq -3\}$$

$$E_2 = \{(x, y) \in \mathbb{R}^2 : x \geq 2\}$$

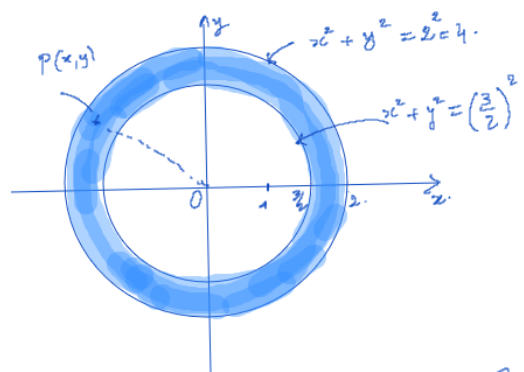


$$E = E_1 \cup E_2$$

$$= \{(x, y) \in \mathbb{R}^2 : x \leq -3 \text{ or } x \geq 2\}$$

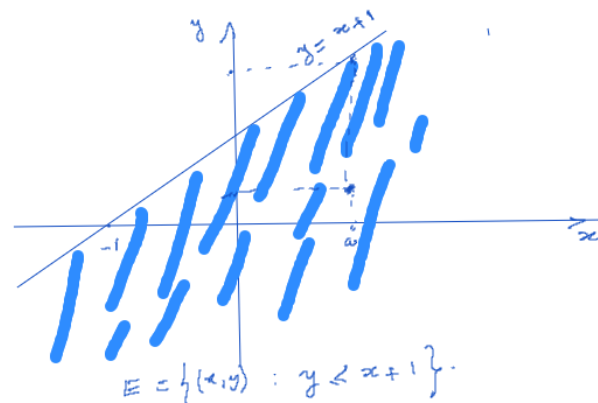


$$E = \{(x, y) \in \mathbb{R}^2 : x^2 + y^2 \leq 1\}$$



$$E = \{(x, y) \in \mathbb{R}^2 : \frac{3}{2} \leq \sqrt{x^2 + y^2} \leq 2\}$$

$$= \{(x, y) \in \mathbb{R}^2 : \left(\frac{3}{2}\right)^2 \leq x^2 + y^2 \leq 4\}$$



$$E = \{(x, y) : y \leq x + 1\}$$