$$x_1 \cup x_2 = \{x_1, x_4, x_5\}$$

 $x_1 \cap x_2 = \{x_1\}$

 $x_2 = \{x_1, x_5\}$

$$\mathbf{x}_1 = \{x_1, x_4\}$$

$$\mathbf{x}_2$$

$$\mathbf{x}_3$$

$$\mathbf{x}_3$$

$$\mathbf{x}_4$$