$$A := \left\{ \times \in \mathbb{R}^2 \mid ||x|| > 1 \right\}$$

$$B := \int x e \mathbb{R}^2 \left| \|x\| < 1 \right|$$

$$C := \left\{ \times \in \mathbb{R}^2 \mid ||x|| \geqslant 1 \right\}$$

$$D := \{(x,y) \in \mathbb{R}^2 \mid y \gg x^2 \}$$

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

$$F := S^{\prime} \cup (\mathbb{R}_{+} \times \mathbb{R})$$

$$G_7 := \mathbb{R}^2 \setminus (\mathbb{R}_+ \times \{o\})$$

$$\mathbb{R}_{+} := \{ \times \in \mathbb{R} \mid \times \geqslant 0 \}$$

$$A, C \simeq S^1 \implies \pi_1(A) = \pi_1(C) = \mathbb{Z}$$

$$B,D,E,G$$
 semple com \Longrightarrow $\pi_1(B)=\pi_1(B)=\pi_1(E)=\pi_1(G)=\{e\}$

$$\pi_{1}(F, x) = \begin{cases} Z, & x \in \mathbb{S}^{1} \\ \{e^{2}, & x \in (\mathbb{R}_{+} \times \mathbb{R}) \end{cases}$$