

$$A \times B = \{(1,2), (1,3), (2,2), (2,3), (3,2), (3,3)\} \rightarrow I$$

$$B^r = B \times B = \{(2,2), (2,3), (3,3), (3,2)\} \rightarrow II$$

$$I - II = \{(1,2), (1,3)\}$$

$$\text{الف) } (2, m^2) \leftrightarrow (2, m+2) \Rightarrow m^2 = m+2 \rightarrow m^2 - m - 2 = 0 \rightarrow (m+1)(m-2) \begin{matrix} m = -1 \\ m = 2 \end{matrix}$$

$$\text{ب) } (2, m^2) \leftrightarrow (2, m+2) \Rightarrow m^2 = m+2 \rightarrow m^2 - m - 2 = 0 \rightarrow (m+1)(m-2) \begin{matrix} m = -1 \\ m = 2 \end{matrix}$$

$$I \neq \begin{cases} m=2 \rightarrow (2,4), (2,4) \text{ تابع نیست} \\ m=-1 \rightarrow (1,1) \text{ تابع است} \end{cases} \quad I \neq \begin{cases} m=-1 \rightarrow (-1,4), (-1,3) \text{ تابع نیست} \\ m=2 \rightarrow (2,1), (2,4) \text{ تابع نیست} \end{cases}$$

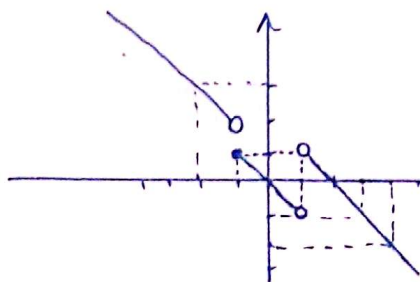
$$I \neq, a=1 \begin{cases} a^2 - 1 = 0 \\ a+b = a+b \end{cases} \Rightarrow a+b = 0$$

$$I \neq, a \neq 1 \begin{cases} a+b = 2a+b \\ a = 1 \end{cases} \Rightarrow 2a+b = 1$$

$$\begin{cases} 2a+b = 1 \\ a+b = 0 \end{cases} \rightarrow \begin{matrix} \uparrow \\ \text{نه} \end{matrix}$$

$$\begin{cases} a=1, b=-1 \\ a \times b = -2 \end{cases}$$

$$I \neq, u = v \begin{cases} 2u-3 = 2u-5 \\ 5-2u = 5-2u \end{cases} \Rightarrow 2u-3 = 5-2u \rightarrow 2u = 8 \rightarrow u = 4$$



$$D_f = R - \{1\}$$

$$R_f = R - (1, 2]$$

