

$(1, 2) \in R_1 \Rightarrow (2, 1) \in R_1 \Rightarrow 1 \sim 2$ $(2, 2) \in R_1 \Rightarrow 2 \sim 2$ $(1, 1) \in R_1 \Rightarrow 1 \sim 1$ $(2, 1) \in R_1 \Rightarrow (1, 2) \in R_1 \Rightarrow 1 \sim 2$ $(1, 2) \in R_1 \Rightarrow (2, 1) \in R_1 \Rightarrow 1 \sim 2$	۱
$R_1 \subseteq R_2 \Rightarrow R_1 \subseteq R_2$ $R_1 \subseteq R_2 \Rightarrow R_1 \subseteq R_2$ $R_1 \subseteq R_2 \Rightarrow R_1 \subseteq R_2$	۲
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الف) $m \leq \sqrt{2} - 1 \Rightarrow m^2 \leq 2 - 2\sqrt{2} + 1 = 3 - 2\sqrt{2}$ $m \leq \sqrt{2} - 1$ $m \leq \sqrt{2} - 1$ $m \leq \sqrt{2} - 1$ ب) $\frac{-b}{2a} = \frac{1}{2} = 1$ $\frac{-b}{2a} = \frac{1}{2} = 1$ $\frac{-b}{2a} = \frac{1}{2} = 1$ ج) $m^2 - (m+1) + 1 = 0 \Rightarrow m^2 - m = 0 \Rightarrow m(m-1) = 0 \Rightarrow m = 0$ $m = 1$ د) $m = 1 \pm \sqrt{2} - 1 \Rightarrow m = 1 \pm \sqrt{2} - 1 \Rightarrow m = 1 \pm \sqrt{2} - 1$ ه) $m = 1 \pm \sqrt{2} - 1 \Rightarrow m = 1 \pm \sqrt{2} - 1 \Rightarrow m = 1 \pm \sqrt{2} - 1$	6
الف) $m = 1 + \sqrt{2} \Rightarrow m^2 = 3 + 2\sqrt{2} \Rightarrow m^2 - 2m - 1 = 0$ $\Delta = 4 + 4 = 8$ ب) $m = \frac{-1 \pm \sqrt{1-4}}{2} \Rightarrow m = \frac{-1 \pm \sqrt{-3}}{2} \Rightarrow m = \frac{-1 \pm i\sqrt{3}}{2}$ ج) $\frac{1-m}{2} = \frac{1-m}{2} + \frac{1}{2} \Rightarrow m = \frac{1-m}{2} + \frac{1}{2} \Rightarrow m = \frac{1-m}{2} + \frac{1}{2}$ د) $m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1$	7
الف) $m = \frac{1}{\sqrt{2}-1} \Rightarrow m^2 = \frac{1}{2-2\sqrt{2}+1} = \frac{1}{1-2\sqrt{2}} \Rightarrow m = \frac{1}{\sqrt{2}-1}$	8
الف) $\frac{m}{1+m} = \frac{-2}{5} \Rightarrow -2 + -2m = 5m \Rightarrow 5m + 2m = -2 \Rightarrow 7m = -2 \Rightarrow m = -\frac{2}{7}$ ب) $m = 0 \Rightarrow -2 = 5m \Rightarrow m = -\frac{2}{5}$ ج) $m = 1 \Rightarrow -2 = 5m \Rightarrow m = -\frac{2}{5}$ د) $m = 1 \Rightarrow -2 = 5m \Rightarrow m = -\frac{2}{5}$	9
الف) $m = \sqrt{2} - 1 \Rightarrow m^2 = 3 - 2\sqrt{2} \Rightarrow m^2 - 2m + 1 = 0$ ب) $m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1$ ج) $m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1 \Rightarrow m = 1 + \sqrt{2} - 1$	10