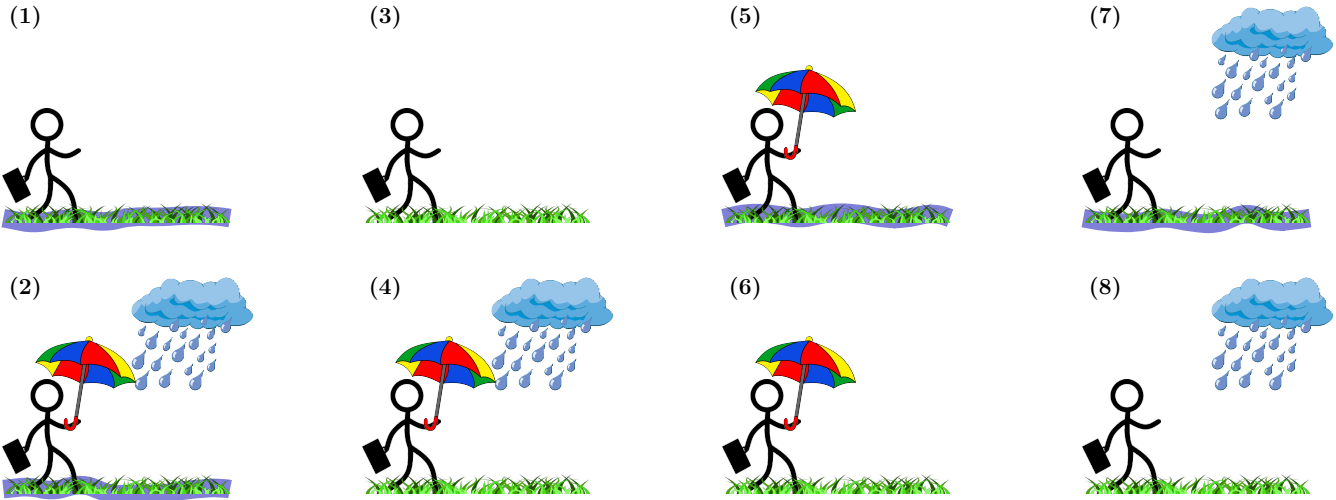


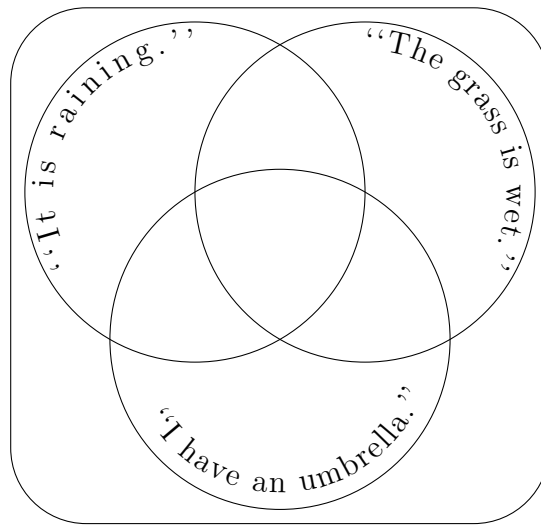
Fill in the negation of each statement.

- $R \equiv$ "It is raining."
- $G \equiv$ "The grass is wet."
- $U \equiv$ "I have an umbrella."
- $\sim R \equiv$ _____
- $\sim G \equiv$ _____
- $\sim U \equiv$ _____

For each picture indicate all the above statements that apply to it by writing the appropriate letter or negation.



For each region of the Venn Diagram, write down which picture belongs in that region.



For each statement or combination of statements, indicate which set of pictures make the statement true.

- | | |
|---------------------------------|---|
| 1. R : _____ | 7. $\sim (U \vee R)$: _____ |
| 2. $\sim R$: _____ | 8. $\sim U \wedge \sim R$: _____ |
| 3. $R \wedge G$: _____ | 9. $R \rightarrow G$: _____ |
| 4. $\sim (R \wedge G)$: _____ | 10. $\sim G \rightarrow \sim R$: _____ |
| 5. $\sim R \vee \sim G$: _____ | 11. $G \rightarrow R$: _____ |
| 6. $U \vee R$: _____ | 12. $\sim R \rightarrow \sim G$: _____ |