

The image contains two diagrams illustrating the relationship between a set S and its power set $P(S)$.

Left Diagram: A circle labeled S contains elements a, b, c . A larger circle labeled $P(S)$ contains S and the empty set \emptyset .

Right Diagram: A circle labeled S contains elements a, b, c . A larger circle labeled $P(S)$ contains S and the empty set \emptyset . Arrows point from S to $P(S)$, indicating a mapping.