

A

B

$A \cap B$



A Venn diagram consisting of two overlapping ellipses. The left ellipse is outlined in red and filled with red diagonal hatching; it is labeled with a red italic 'A' at the top left. The right ellipse is outlined in green and filled with green diagonal hatching; it is labeled with a green italic 'B' at the top right. The intersection of the two ellipses is shaded with a brownish-grey background and a cross-hatch pattern of red and green lines. This intersection area is labeled with the mathematical expression $A \cap B$ in a dark grey serif font.