

2C Conditional Probability in Venn Diagrams

1. A and B are two events such that $P(A) = 0.55$, $P(B) = 0.4$ and $P(A \cap B) = 0.15$.

a) Draw a Venn diagram showing the probabilities for events A and B .

Find:

b) $P(A|B)$

c) $P(B|(A \cup B))$

d) $P(A'|B')$