

Exercise 2. Based on the example [1](#), try to replace the question mark symbol in the following relationships.

i. $P(A) + P(A') = ?$

ii. If $A_1 \subseteq A_2$, then $P(A_1) ? P(A_2)$

Take inspiration, for example, from events D and A .

iii. If $A_1 \cap A_2 = \emptyset$, then $P(A_1 \cup A_2) = ?$

Take inspiration, for example, from events A and E .

iv. If $A_1 \cap A_2 \neq \emptyset$, then $P(A_1 \cup A_2) = ?$

Take inspiration, for example, from events A and C .

v. $P(A_1 \cup A_2 \cup A_3) = P(A_1) + P(A_2) + P(A_3) - ? - ? - ? + ?$

Take inspiration, for example, from events H , C and E .

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