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1 Belief Sets

Determine Cn(K) for the following K:

- 1. $K = \{P, Q\};$
- 2. $K = \{P \lor Q, P \lor \neg Q\}.$

2 Remainder Sets

The remainder set of belief set K by a sentence A, denoted $K \perp A$, is the set of all belief subsets of K that fail to imply A.

Compute $K \perp A$ for the following cases:

- 1. $K = \{P, Q\}, A = \{P \land Q\};$
- 2. $K = \{P \lor R, P \lor \neg R, Q \land S, Q \land \neg S\}, A = P \land Q.$

3 AGM Postulates

- 1. Show that postulates (K^*1) to (K^*5) entail the following fact: if $A \in K$, then K * A = K.
- 2. Show that * is not commutative, i.e., there exist K, A, and B, such that $(K*A)*B \neq (K*B)*A$.