

ECE 3075

HW #1

Solution Errata

Problem 1.5 (h) The answer 1 is incorrect. The correct solution is as follows:

$$\begin{aligned}P((A \cap B) \cup \bar{C}) &= P(A \cap B) + P(\bar{C}) - P(A \cap B \cap \bar{C}) \\&= \frac{1}{52} + \frac{51}{52} - P\{\text{king of spades is drawn and ten of spades is not drawn}\} \\&= 1 - P\{\text{king of spades is drawn}\} \\&= 1 - \frac{1}{52} \\&= \boxed{\frac{51}{52}}\end{aligned}$$