Tutorial Preparation Week 9

3.(a)

(i)
$$P(B) = 1 - P(B) = 1 - 0.6 = 0.4$$
.

 $P(A \cap B) = 0.2 = P(A \cap B) = 0.2$
 $P(A \cup B) = 0.4$
 $P(A \cup B) = P(A \cup B) = 0.2$
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(ii)
$$P(A \cap B) = 0$$
?

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The same

$$P(A \cap \overline{B}) = 0.2 \pm 0 \rightarrow NoT \text{ disjoint}$$

 $P(A \cap \overline{B}) = P(A), P(\overline{B})$?
 $P(A \cap \overline{B}) = P(A), P(\overline{B})$?
 $P(A \cap \overline{B}) = P(A), P(B)$?
 $P(A \cap \overline{B}) = 0.2 \pm 0.2$
 $P(A \cap \overline{B}) = 0.2$
 $P(A \cap \overline{B})$