Statistics Assignment 4

(1) Yes, it is possible. If probability of event is o or 1, it is possible.

(2) P(A° nB°) = 1- P(AUB)

= 1 - P(A) - P(B) + P(AnB)

- 1- P(A) - P(B) + P(A) P(B)

 $= \left[1 - P(A) \right] \left[1 - P(B) \right]$

= P(AC)P(BC)

Thus, A and B are independent events.