Assignment 2

2.3.3 Express the following probabilities in terms of P(A), P(B), and P(A n B)



I used De Morgan’s law here where (Ac U Bc) = (A n B)c

We also know that S = (A n B)c + (A n B)

Therefore P(Ac u Bc) = 1 – p(A n B)



P(Ac n (A u B)) = P(A U B) – p(A)

= P(A) + P(B) – P(A n B) – (A)

= p(B) – P(A n B)