HW2 參考解答

2.38

- (a) 8! = 40320.
- (b) There are 4! ways to seat 4 couples and then each member of a couple can be interchanged resulting in $2^4(4!) = 384$ ways.
- (c) By Theorem 2.3, the members of each gender can be seated in 4! ways. Then using Theorem 2.1, both men and women can be seated in (4!)(4!) = 576 ways.

2.63

- (a) 0.32;
- (b) 0.68;
- (c) office or den.

2.72

$$P(A' \cap B') = 1 - P(A \cup B) = 1 - (P(A) + P(B) - P(A \cap B)) = 1 + P(A \cap B) - P(A) - P(B).$$