Answers of Tutorial 1 of Probability and Random Processes

1. a) 7/13   b) 1/26   c) 4/13
2. a) 0.3   b) 0.5

4. a) $p^3 - 3p^2 + 3p$ b) $\dfrac{(2p - p^2)(1 - p)}{p^3 - 3p^2 + 3p}$

5. a) 0.0275   b) 0.3636
6. 15/19
8. 25/41. (Assume Repeat is allowed)
10. a) 12/2   b) 11/50   c) 10/50
11. 8/9
12. 4/11
13. 4/9
14. 0.9162. (Assume P(ANSBNCS)=1/525)