1. **(a)** $P(\text{woman}) = 4/10 = 0.4$ or 40%

(b) $P(\text{man}) = 6/10 = 0.6$ or 60%

(c) $P(\text{President}) = 1/10 = 0.1$ or 10%

2. 2/3

3. **(a)** 1/6 **(b)** 1/6 **(c)** 1/3

4. **(a)** With replacement, P(Red first *and* Green second) = (6/17)(8/17) = 0.166 or 16.6%

(b) Without replacement, P(Red first *and* Green second) = (6/17)(8/16) = 0.176 or 17.6%

5. P(woman *and* computer science major) = P(woman)P(computer science major *given* woman) = (0.64)(0.12) = 0.077 or about 7.7%

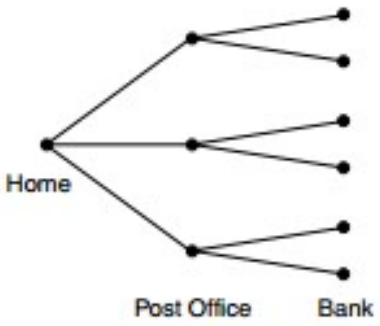
6. **(a)** 180/417 **(b)** 65/115

(c) 166/417 **(d)** 61/417

(e) 61/101 **(f)** 65/180

(g) No; P(neutral) = 166/417 is not equal to P(neutral, given freshman) = 61/101

7. 6;



8. ${}_{16}C_5 = 4368$

9. $C_{24,4} = 10{,}626$