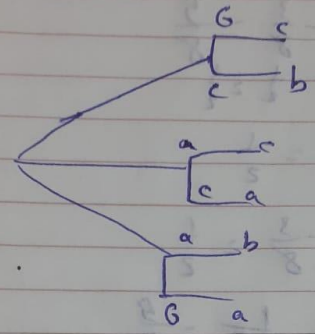
Sat Sun Mon Tue Wed Thu Fri PAGE: DATE:

① $^{12}C_4 * {}^{8}C_4 = 34650$

②



③ $^{12}C_2 = 66$

$P(B) = \frac{8}{66} = \frac{4}{33}$

④ 1- $^{15}C_3 = 450$

2- $501 * {}^{10}C_2 = 1250$ $\quad \frac{250}{455} = 0,2747$

3- $1 - 0,2637 = 0,7363$

⑤ $\frac{10}{30} + \frac{5}{30} = \frac{1}{2}$

Sat Sun Mon Tue Wed Thu Fri PAGE: DATE:

⑥ $P(A) = \frac{3}{8}$; $P(B) = \frac{1}{2}$, $P(A \cup B) = \frac{1}{2}$

$P(A^c) = 1 - P(A) = 1 - \frac{3}{8} = \frac{5}{8}$

$P(B^c) = 1 - P(B) = 1 - \frac{1}{2} = \frac{1}{2}$

$P(A^c \cup B^c) = \frac{5}{8} + \frac{1}{2} - \frac{3}{8} = \frac{1}{2}$

$P(A \cap B^c) = \frac{3}{8} + \frac{1}{2} - \frac{3}{8} = \frac{1}{2}$

$P(B \cap A^c) = \frac{1}{2} + \frac{5}{8} - \frac{1}{2} = \frac{5}{8}$

⑧ $\sum P(x) = k^2 \cdot 8$

$k^2 \cdot 8 = 1$

$k^2 = \frac{1}{8}$

⑨ $1 - P(A \cup B) = 1 - 0,8 = 0,2$