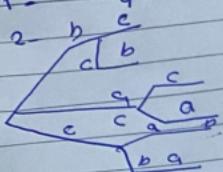


Subject:

Date:

$$1 - 12C_4 \times 8C_4 = 34650$$



*

$$3 - 12C_2 = 66 \\ P(B) = \frac{28}{66} = \frac{14}{33}$$

$$4) 1 - 15C_2 = 450 \rightarrow 10C_3 = 120 \\ 2 - 5C_1 \times 10C_2 = 1250 \quad \frac{450}{455} = 0.2747 \\ 3 - 1 - 0.2637 = 0.7363 \\ *$$

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

*

$$6 - P(A) = \frac{3}{8} \quad P(B) = \frac{1}{2}, \quad (P \cap B) = \frac{1}{2}$$

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

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

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

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

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

*

7 - 0

$$8 - \sum P(X) = k^1 \cdot z - 8 \\ = k^1 z - 8 - 1 \\ y^1 z = 9 \\ K = 3$$

$$9 - 1 - (A \cup B) = 1 - 0.8 = 0.2$$

$$= 0.2$$