$$P(\Delta) = P(\Delta|u_1)P(u_1) + P(\Delta|u_2)P(u_2) + P(\Delta|u_3)P(u_3)$$

$$P(\Delta|u_1) = \frac{2}{5} \cdot \frac{1}{4} \cdot \frac{4}{6} \cdot (\frac{3}{2}) = \frac{1}{4t} \cdot \frac{3!}{2!} = \frac{2}{4t} \cdot \frac{3!}{2!} = \frac{2}{4t} \cdot \frac{3!}{14}$$

$$P(\Delta|u_2) = \frac{3}{5} \cdot \frac{2}{7} \cdot \frac{4}{6} \cdot (\frac{3}{2}) = \frac{3}{76} \cdot \frac{3!}{2!} = \frac{4}{72} \cdot \frac{3!}{14}$$

$$P(\Delta|u_3) = \frac{3}{8} \cdot \frac{2}{7} \cdot \frac{3}{6} \cdot (\frac{3}{2}) = \frac{3}{76} \cdot \frac{3!}{2!} = \frac{4}{76}$$
b)
$$\frac{2R}{2\Delta 4V} = \frac{172}{2\Delta 4V} \cdot |u_1| \qquad P(u_1) = \frac{3!2!}{2!4!} = \frac{3\cdot 2!}{4\cdot 3}$$

 $P(u_1) = \frac{3}{9}$ $P(u_2) = \frac{2}{9}$

P(U3) = 4

uzuuy vue/B) = P(Uz|B)+

P(U2/B) = P(B/U2) P(U2) P(U4/B)=

3 R 2 4 V A A 3 R V V U Z

3 R 2 A 4 V A A 3 R V V U Z

3 R 2 A 3 V U Z

3 R 2 A 3 V U Z