C) as
$$cov(V, W) \neq 0 = > V$$
 and W are part uncorrelated as $cov(V, W) \neq 0 = > V$ and W are not independent

Problem 6.

a)
$$\frac{1}{7} - \frac{1}{10} = \frac{1}{1$$

Prob 7.

A-event that client belayed payment

B-event that this client belayed and payment

C-event that this client is bean of grown $\begin{array}{lll}
P(B) = \frac{100}{600} = \frac{1}{6} & P(A)BBBC \\
P(B) = \frac{100}{600} = \frac{1}{6} & P(A)BBBC \\
P(B) = \frac{100}{600} = \frac{10$

Expected result Ser all the work 24/100

a) Lat A be areal tret both hall are block, and B-both are white Prob 8 $P(A \text{ or } B) = P(A) + P(B) = \frac{C^2}{C^2} + \frac{C^2}{C^2} = \frac{2 \cdot \frac{5 \cdot G}{7}}{\frac{70 \cdot 9}{2}} = \frac{4}{9}$ they the same color C-event that they are the same whor enoted goin = 1. $P(C) + (-3) P(C) = \frac{4}{9} + (-1)(1-\frac{4}{9}) = \frac{8}{9} - 1 = -\frac{1}{9}$ b) X.... Xn... - events that it shots at go and gun usualled tanger
Y. ... Yn... - events that it shots at go and gun usualled tanger Xin Born (Pi) Y; ~ Ben (Pz) 夏= min ° | X;=1 E &1=10 = = min j / Y = 1 E \(\bar{\z} z = 15 $E_{2,} = \sum_{i=1}^{\infty} (P(X_{i}, X_{i}, X_{i$ (/-(1-P1))² b(x'=0) -- b(x:-1=0) b(x:=1) EZ = (=) P = 1/0 P2 = 1/5 X10 ASA 1-x = 2 xi $\left(\frac{1}{1-x}\right)^{i} = \left(\sum_{i=0}^{\infty} x^{i}\right)^{i} = \sum_{i=0}^{\infty} i\pi x^{i-1}$ - 6 Fix = last(x)2 Z:= max (X, Y1) Zi _Z; i +j

$$Z_{i}:=\max(X_{i},Y_{i}) \qquad Z_{i} \perp Z_{j} \quad i \neq j$$

$$P(Z_{i}) = 1 = P(X_{1}:|\Lambda Y_{i}|) = 1 - P(X_{1}:0 \vee Y_{i}=0) = 1 - P(Z_{i}) = 1 - P(Z_{i})$$