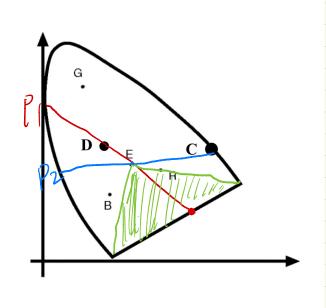
R



T. Pl

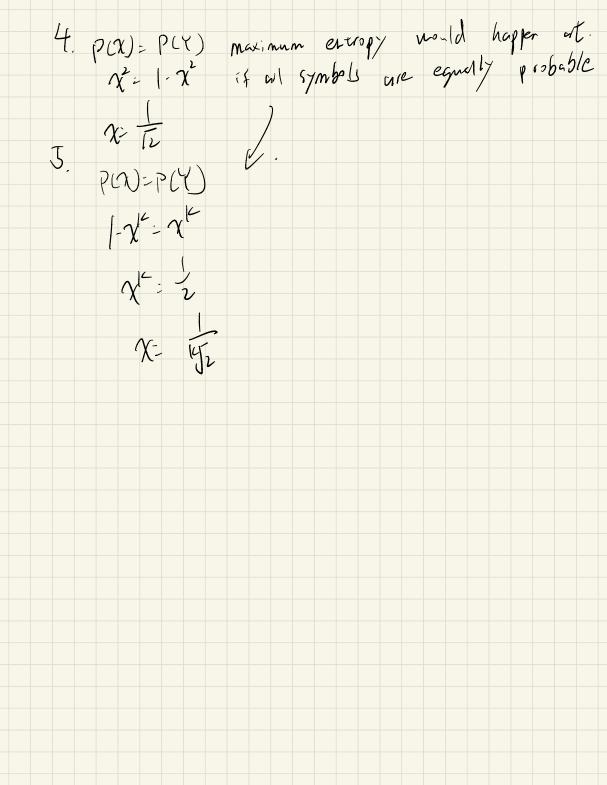
Ti. Wo, in green over there is not corresponding dominal wavelegth. The volor in this ones is combination of other alors.

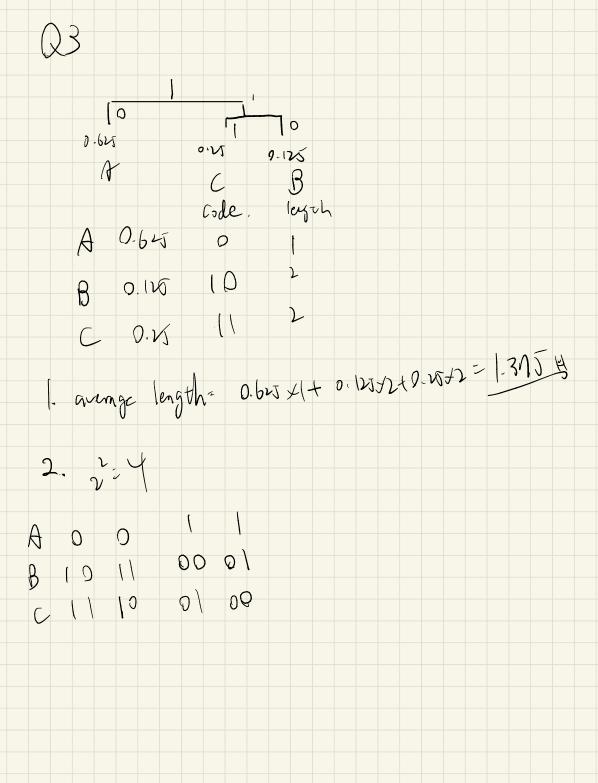
Ti. Pl

Ti. Pl

White, black, gry scale

1. P(X)= x2 P(X)=1-x2 (-167): - IPA 19 PA: - 2 10g 2 - 47) 109, (1-22) = -1x210g.X- (1x)10g. (1x) 0.707 2. Entropy will be minimum at X-1,0 : Entropy minimum would happon when a symbol that are much more likely to open then other symbols 3. happen at P(R) = (or P(T) = 1 x51 or 1-2/2/ X= \ X=0





3. 2 00001 A binary tree has N-1 edges for N mdes each edge can represent as 0 or 1 in ading in property of the season of t

E(X)=-(0.64/39,0.64+0.14/390.125+0.45/3013) = 1.298 PECX) & averge length Berter Solution: try to encode as two characters averge length - 1.323 PCAA) = 0.39 | PLAB) = 9.08 4 L1.375 P(AC) = 0.5 3 PCBA) = 0.18 4 PLBB) = 0.02 b P(BC) = 00) 5 P(CA) = 0.15 3 P(CB) = 0.03 b P(CL) -0.064 1.3203 AA AC CA AB BA CC BC CB \$B 0.15 0.15 0.28 0.06 0.01 1.03 0.02 0.th 1.2h 0.3