HW & Paten 1 a) T(n) = (n-1)+ = = 7 (max (q-1, n-q)) = n+ + = \( (1-p) 7(q) If T(n) < 1n ((n) = (1-1) + = (1-1) = 9  $=\frac{3}{4}\left[\alpha(1-p)+1]n-\frac{\alpha}{2}(1-p)-1$ b) 3 [a. ] +1] n - \(\delta\). \(\frac{2}{5}\)-1 = =n + =n - = -1 = an 3/1-5n az 2 /h1 z 3 n C) p=3 7[Q1+1]n-21-1  $= (\frac{a}{4} + \frac{3}{4})_{n} - \frac{a}{6} - 1 \leq a_{n}$  $\frac{a}{4}n + \frac{3}{4}n - \frac{9}{5} - 1 \leq a_n$ 4n ca Tonson TINZEN



