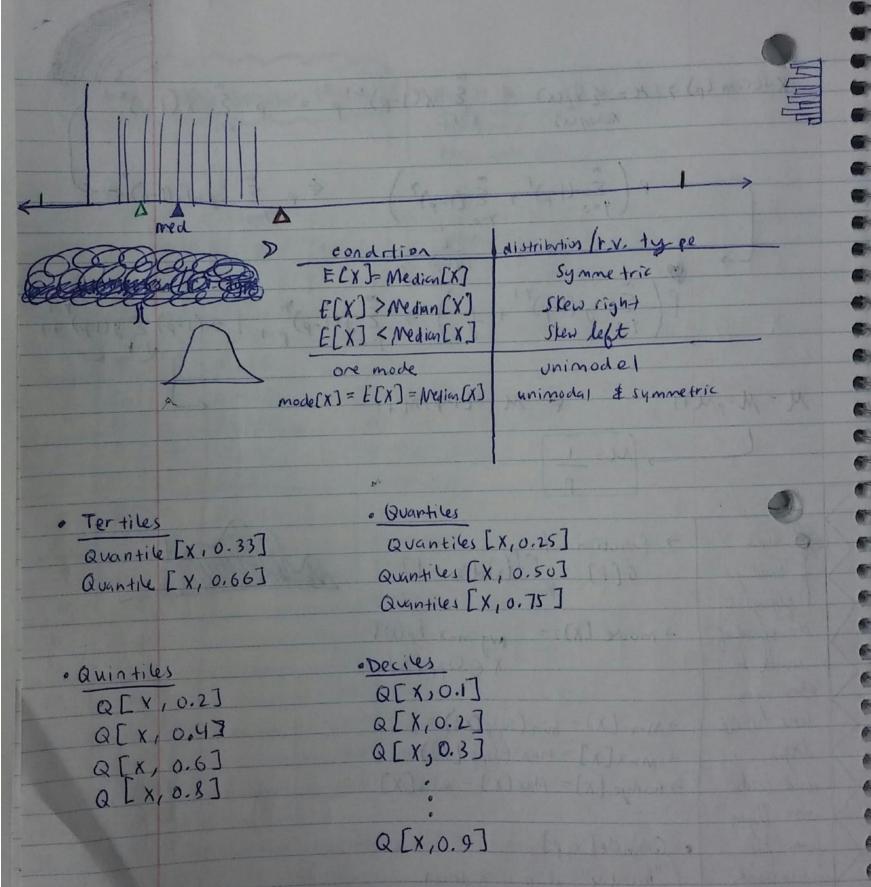
> NOV 11, 2016 9AM (Lecture 13: MM November 151, 2016 HW6, due ther Exam upto HWG · X ~ (teom (p): = (1-p)x-1.p m= E(x) = & x p(x) >(Ex) X~(600 (0.2) = 0.8x-1.0.2 KESUPP [X] 8(x) F(Y) X X -> M L.L.N. X~Bern(p) 0.2 0.2 E(x)=p 0.160 0.36 X~Binomial(nip) 0.488 0.128 0.590 0.102 2(x)=np X~Hyper(n, K,N) 0.082 0,672 0.066 E(x)= n K 0.738 0.052 0.790 7 0.042 0.832 X~ Geom (p) E(x)= 0.034 X~ Ney Bin (r,p) .027 E(X)= .021 il .017 12 ,001 + Approximate .014 13 .001 Effective Support .011 14 := {x:p(x) 2.0013 C .008 .999 ,001 27 15 Supp [X] ,000 ,007 28 16 = smaller subsets of .006 11 x ~ beam (0.2) = E(x) = 1 = 5 .005 Supp [X] call is A 18 such that .004 p(x) Mode(x)=1 EP(x) = . 999 ,003 Median (x) 2 4 .002 21 v = X-1 IQX[X]=5 1001 X=4+1 ,001 23

191111111

1001

24

 $X \sim Geom(p) \Rightarrow H = \{x_p(x) = \{x_p(x) = \{x_p(x) = x_p(x) = x_p(x)$ P(E(1-p)) + E(1-p)) (y=0 (y+1)(1-p)) = 1 P( \(\frac{2}{5}\) y (1-p)\(\frac{7}{1}\) \(\frac{2}{5}\) y (1-p)\(\frac{7}{5}\) \(\frac{1}{5}\) y \(\frac{2}{5}\) y (1-p)\(\frac{7}{5}\) \(\frac{1}{5}\) \(\f  $M = M - \rho M + 1$  = M = (1-p)M + 1 $M = \frac{1}{p}$ off = psf(x)dx = 17 Send and & build you ( flying at -> mode (x):= avg max {p(x)} the speed of X E SUPP (X) sound to show you > Min [X] > min (supp [X]) = 1 how it all ([x] ggcl) xam = [x]xam = Degan, -> Range [X] = Max [X] - min [X] and birds come flying · Quantile [x, p] from the ("Recentile" if p is a percent. nderground f you En = ary min gF(x) ≥p3 see it, they you'll -> Median [X]: = avantile [x, 0.5] allerstand



· I Q R [x] = Q [x,0.75] - Q [x,0.25]

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