MECH 6312-Evan4 Jonas Wagner 2020-11-08 a) Rayliegni 02 64 A(x) = x e = 200 u(x)

M = 120 & 2 130 32 ? a conding to 2,34. 1 = 46.8 PF-95/20 60] [-12.3, 17.7] b) û(n= 1 £X; = [46.8] $g_{\chi}^{2}(n) = \frac{1}{n-1} \left\{ (\chi_{i} - \hat{\mu}_{\chi}(n))^{2} = |71.73| \right\}$ 1+8=0.95 dof=9 TEO.95397=1.833 CI: Mx + to, 95; 97 fm $46.85 \pm 1.833 (71.73)$ (46.8 ± 4.9) (41.89,51.71)

MECH 6312- Frank Jona & Wagner 2020-11-02 X0.5] \\ \frac{1}{5} + \frac{1}{6} X[0,6] = 45 b) 65% EI &= 0.65 Bn = Z(4+8/2) = Z[0, 825] 1= (n-1/2 20+8/2 +1)/2 = 10-10(0.935)+1 a= (1 / 1/n-1+1) r= 4,0216 CI: [Y4, Y7) X[05]= [42,51) W/ 65% Confidence 14,52 = 14 + Y