Chapter Sa E[X]=.4(1)+.2(2)+.4(3)=2=E(X] [-[x]=.4(12)+.2(22)+.4(33)=4.8 Var[x] = 4.8-22= .8= Var[x] Chapter 5b 1.) E(x) = [X.2xdx = 2x2] = = = = = [[x] $F(x^2) = \int x^2 \cdot 2x \, dx = \frac{x+1}{2} = \frac{1}{2}$ Var(x) = 1 - (2)2 = 1 - 4 = 18 = [MX Var[x] 1/ -, 14.02 40 Rx(-.02)=1

Chapter Sc AFN Y-So SXXII ENSING OF FOR SHOCKED Sx(f)= Ori (1-1+1)+ S(f) Prx(2) = Ori (1-121) + 8(2) H(f)= A. rest (f) S(F)= Tri(1-111)+8(f) H(8) + (8)