

1= 5-00 f(x) dx = 50 10x dx = 30 = 3 = 612 = 10= 15 p(0 < x < 1) = 50 3/8 x 2 do = 1/8 x 3 ] = 1/4 P(15: X 51.5) = 5115 3/8 X2 2x = 1/8 x3 715 = 1/8 (1/2) - 1/8 (1) = +9/64 P(X=1,5)=1-5=3/8X=1/8X3)=1/8(2)'-1/8(1.5)3=0.578 6 Sew S(y) dy = 56 = 75 ydy + 56 (3/5 - 1/25) dy = 42/50 6 + (2/64 - 1/3047) Je = 25/50+[(4-2)-(2-1/2)]= 1/2+1/2=1 C, P(y=3)=50 /25 Ydy= 12/50 ]0=9/5020,18 d, P(YE8)=50/25Ydy+50(2/5-1/25Y)dy=23/25=0.9/2 P(3 = 458) = P(458) - P(463)=0,92-0.18=0,74 8 P(Y=201 476) = 50 1/25 Y dy+ 510 (2/6-1/25) dy=0.4

11, 4 PLX 51) = F(1) = 174 = 0,25 b, P(0,5.5×51) = P(1) -P(0,5) = 17/4 - 0.5/4 = 0.187 6 PG>15-121-P(X515)=1-+41+=1-15/4=0.437 d. 0,5 = P(M)= 12= 12=2=12 E18(x)= \$1(x) = 7/2.80r D 6xc2. and =0 other mile & E(x) = 52 x. 1/20x = 1/25x2dx = 6, 0 = 8/0 x 1.33 9. E(x2) = 52 x2 x = 1/2 50 x3 dx = 1/2 Jo = 2/4 50 V(x)= F(x) - [F(x)]= 2-(4/6)= 8/26 h, EQ = 2 12, U, P(x<0) = P(0) 20,5 b, [(-15×51) = F(1) - F(-1) = 0.6878 (, P(x>0,5)=1-1(x5.0,5)=1-F(0,5)=1-0,6836=0,3164  $\frac{1}{3!} \left( \frac{8(8)}{8(8)} + \frac{1}{2} \frac{1}{3!} \left( \frac{1}{2} + \frac{3}{3!} \left( \frac{4}{3} + \frac{3}{3!} \right) \right) = 0. + \frac{3}{3!} \left( \frac{4}{3} - \frac{3}{3!} \right) = 0.093 \left( \frac{4}{3} - \frac{3}{3!} \right)$ C, F(a)=0,5, F(0)=0,5

17. 8-4 =P->x=A+(B-A)P 6 FG) = SBX, 1/B-A 2x = A+3/2 # (x2)=(A2+An+n2)/(3) -> V(x)=F(2)-[ELAT] = (V-A)/12 08 = 5/8) = B-A/1/2  $(/ E(x^n) = S_B^{B} \times (-1/B - A) \times (-1/B -$