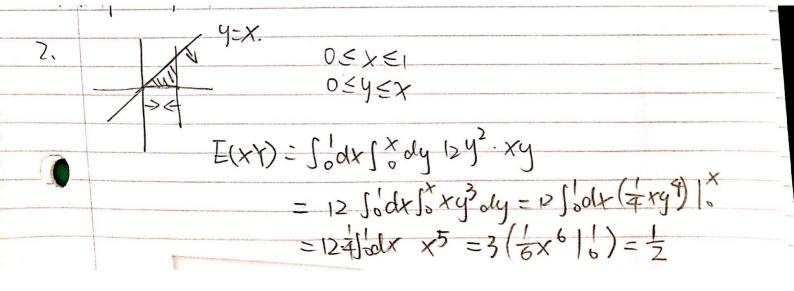
HWZ. Kifeng Luo
1 FrequencyP(b) 388 7 8 6 214.
$\frac{2}{3}$
$\begin{vmatrix} 4 \\ 2 \end{vmatrix}$
9
E(1)= = (2x8+7+6+2+1+4+2x3)
$=\frac{1}{9}(16+15+5+6)$
5 X 42
3



3.
$$(x_1-2x_2+x_3)^2 = (x_1-2x_2)^2 + 2(x_1-2x_2) \cdot x_3 + x_3^2$$

$$= x_1^2 - 4x_1x_2 + 4x_2^2 + 2x_3x_1 - 4x_2x_3 + x_3^2$$

$$= (x_1-2x_2+x_3)^2 = E(x_1^2) - 4E(x_1x_3) + 2E(x_2x_1) - 4E(x_2x_3^2) + E(x_2^2)^2$$

$$= (x_1-2x_2+x_3)^2 = E(x_1^2) - 4E(x_1)E(x_2) + 2E(x_3)E(x_1) - 4E(x_2^2)E(x_3^2)$$

$$+ E(x_2^2) + E(x_2^2)^2$$

$$= (x_1-2x_2+x_3)^2 = \frac{1}{2}$$

$$= (x_1-2x_2+x_3)^2 = \frac{1}{3} - 4x_2^2 + 2x_2^2 + 2x_2^2 + 2x_2^2 + x_3^2 + x_3^2 + x_3^2 + x_3^2$$

$$= \frac{1}{3} - 1 + \frac{1}{2} - 1 + \frac{1}{3} + \frac{1}{3}$$

$$= \frac{1}{3} - 1 + \frac{1}{2} - 1 + \frac{1}{3} + \frac{1}{3}$$

$$= \frac{1}{3} - 1 + \frac{1}{2} - 1 + \frac{1}{3} + \frac{1}{3}$$

4. $\int P(\chi \leq \chi) = \int_{0}^{\chi} e^{-t} dt$ G(Y)= P(Y=y)=P(e3=y)=P(3x=iny)=P(x==iny) = 1 3 lny e-t dt = -e-t 13 lny = -(e-3 lny -1) $= 1 - (e^{1hy})^{-\frac{1}{3}} = 1 - 4^{-\frac{1}{3}}$ g(y)=G(Y)= \$y-\$, y>1 E(Y)= 50 e-x. e=x dx = 50 e-4x dx = -4e-4x 100 =-4(0-1) X = 1,2...,6 $Y = g(x) = 2x^2 + 1$ $p(x) = p(Y) = \frac{1}{6}$ 2×36+1=B E(Y)= 6(3+9+19+33+51+73)= 6= 34

