35. H= J= 2目 fcx) 关于 X=2 对称 nf(x) 38. $P(X \le 60) = \Phi(\frac{60-66}{6}) = \Phi(-\frac{6}{6}) = 0.25$ · P(=)=0.75, ==0.68, J=8.82 P(X>65)= 1-P(X≤65)=1-\$(-+)=\$(+)=0.54 $P = 1 - (1 - 0.54)^3 = 0.90$ 39. PC | X | > 23.26) = 1-P(1x1423.26) = 1-(P(x423.26)-P(x4-8)) $=1-(\Phi(\frac{23.26}{10})-\Phi(-\frac{23.26}{10}))=2-2\Phi(2.326)=0.02$ > P = 1 - 0.98 200 - C200 × 0.02 × 0.98 - C200 × 0.02 × 8.98 - C200 × 0.023 × 41. 对于X,有P(X=-2)=0.3、P(X=+1)=0.6,P(X=2)=0.1 こなまところうのはしいましょうしょうしょうしょうこと マナチュニメ: 有P(ヹ=2)=0.4)、P(ヹ=1)=0.6 0.6+1.0.4 1 1 1 P. 0.6 1 20.4 13 MET 420(1) 11151+11/1-1064-11921-11、前内に全手主 1-1914 1-1911 - (+)111-(+)21-(+)11-(+)11-

= -1-05=(+)H': (+)10 16-97 (+(H)1)

tx= 2 17/2 ~ n(-215/2) 当 5<- 主日す P CX 525-11=0, 52日 P(x 529-1)=0 -= 5 5 7 5 7 E + 1 (X 2 5 - 1) = - 5 7 7 1 (2) 1/2= 大, 则P(Y254)=P(大,524-1) $F_{Y}(y) = F_{X}(2y-1) , f_{Y}(y) = f_{X}(2y-1) \cdot 2$ 当2y-12-2, ye-=日+1fx(2y-1)=0.fy(y)=0 当 2y-1>3 1 y>2日+ 1fx(2y-1)=0.fy(y)=0 当-252Y-153,-154 (2Y-1)= - fy(Y)= - fy(-xsino (声)xcy 设少>0 47. (1) D (YISY) = P(X2SY)=P(-155XSJ) $F_{Y_1}(y) = F_{X}(J\overline{y}) - F_{X}(-I\overline{y})$ 点·e-{x2 = 点·点 $(2) P(Y_2 \le y) = P(e^{-x} \le y) = P(x \ge -\ln y)$ Fr2(Y) = 1- Fx(-Iny) fyz(y) = - fx(-Iny) · (-+) = +fx(-Iny) = 1. = e (3) P(Y3 54) = P(X+|X| 54) = P(2X 54) iq. 1/20 $= P (x \le \frac{1}{2}) = F_{x_3}(y) = \frac{1}{\sqrt{2}} \cdot e^{-\frac{(\frac{1}{2})^2}{2}}$

1+9=1- FY(4) 1- FY(0) - 1=4 $1 = P(3-2X \le y) = P(x \ge \frac{3-y}{2})$ $= 1 - P(X < \frac{3}{3} - \frac{1}{9})$ 水: Fy(y)= 50 (1+y)2 dy = 1-1+y 7/9(x)为 FY(y)的反函数(9cx)

