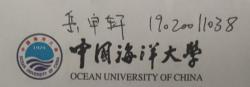
第二章 现三



2、
$$p\{-1 < X < \frac{1}{2}\} = F(\frac{1}{2}) - F(H) = \frac{1}{4}$$

 $p\{\frac{1}{3} < X < 2\} = F(\frac{1}{2}) - F(\frac{1}{3}) = 1 - \frac{1}{9} = \frac{8}{9}$
3. $f(x) = \begin{cases} 2x & 0 \le x \le 1 \\ 0 & \frac{1}{2} = \frac{1}{9} \end{cases}$

$$\frac{1}{2} \cdot \int_{-\infty}^{\infty} f(x) dx = 1$$

$$\int_{-\infty}^{\infty} A\cos x dx + \int_{-\infty}^{\infty} -0 dx + \int_{-\infty}^{\infty} -0 dx = 1.$$

$$A\sin x |_{-\infty}^{\infty} = 1$$

$$A = \frac{1}{2}$$

$$2 \cdot f(x) = \begin{cases} \frac{1}{2} \sin x + \frac{1}{2} & |x| \leq \frac{\pi}{2} \\ 0 & |x| \leq \frac{\pi}{2} \end{cases}$$

$$1 \cdot \int_{-\infty}^{\infty} f(x) dx = 1$$

$$A = \frac{1}{2}$$

$$2 \cdot f(x) = \begin{cases} \frac{1}{2} \sin x + \frac{1}{2} & |x| \leq \frac{\pi}{2} \\ 0 & |x| \leq \frac{\pi}{2} \end{cases}$$

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第二章习题三



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$$= .1.B$$
 $2.A$ $3.C$ $= .1. |U| 2 1 -1$

IUT	2	1	-1	-2	-3
PK	18	4	18	3	t

Z	d	4	I	0
PK	18	5/2	13	18

$$P\{X=0\} = \frac{C_8^3}{C_{10}^3} = \frac{7}{15}$$

$$P\{X=1\} = \frac{C_1^2 C_8^2}{C_{10}^3} = \frac{7}{15}$$

$$P\{X=1\} = \frac{C_2^2 C_8}{C_{10}^3} = \frac{7}{15}$$

$$f_{\gamma}(y) = -f_{\chi}(\frac{1-y}{2})$$

$$= -f_{\chi}($$

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Fr (y) = P{Y < y } = P{ tan X < y } = P{X < arctany} = Fx (arctany) fy (y)= fx (arctary) 1+y= + (1+y)2= π(1+y)2 Fyly)= 元 arctany+主 P{ Y70 } = 1- P{Y < 0} = =

3. (1)
$$F_{Y}(y) = P\{e^{x} = y \} = P\{x = ln y\} = F_{x}(ln y)$$

 $f_{Y}(y) = f_{x}(ln y) = \frac{1}{|y|^{2}} = F_{x}(ln y)$

$$f_{Y}(y) = f_{X}(\ln y) \overline{y} - \lim_{z \to y} c$$

 $f_{Y}(y) = p_{Y}(2)^{2} + |y| = p_{Y}(2)^{2} + |y| = f_{X}(\frac{y-1}{2})$
 $f_{Y}(y) = f_{X}(\frac{y-1}{2}) \cdot z = |z| = |z| = |z|$
 $f_{Y}(y) = f_{X}(\frac{y-1}{2}) \cdot z = |z| = |z| = |z|$
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5. S=TR R270 => F5 (5) =0 (5 50) 当5>0时,于515)=Pf用R2=5于=Pf于三个三下(后)-下(后)

五、

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