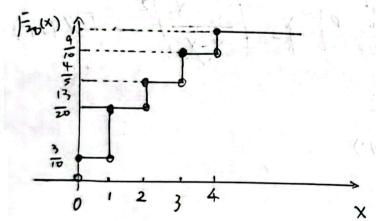
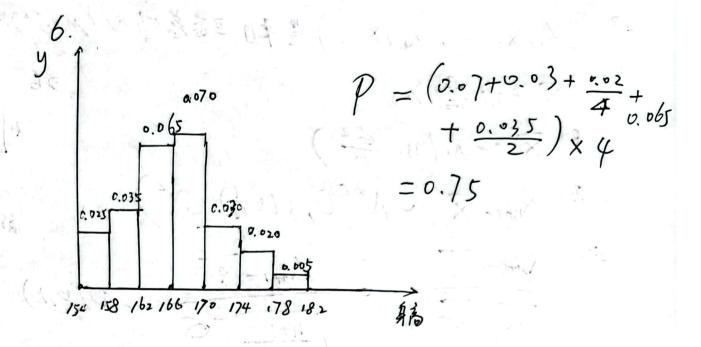


$$F_{20}(x) = \begin{cases} 0 & x < 0 \\ \frac{3}{10} & 0 \le x < 1 \\ \frac{13}{20} & 1 \le x < 2 \\ \frac{4}{5} & 3 \le x < 3 \\ \frac{7}{10} & 3 \le x < 4 \end{cases}$$





7.
$$Y = \frac{1}{6} \frac{1}{2} (X_{i} - M)^{2} = \frac{1}{2} (X_{i} - M)^{2}$$

由于 $(X_{i}, X_{2}, \dots, X_{n})$ 是来自正态总体 $N(\mu.6^{2})^{6}$ 科本, 则 $X_{i} - M \sim M(0,1)$ ($i = 1, 2, 3, \dots n$)

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23. (X,, X2, ..., Xn, Xn+1) 是利 正态总体(1,6°)的样本 76. (X, Xi) 是来自总体 X~N/0,63) 科 Xi+ Xi ~ N(0, 262) X = 1 & Xi R) X~N(M. 62) X,-X2 ~ N(0, 262) M/ Xn+1- X ~ N(0, (H+) 62) $|X_1+X_2-6| \sim N(0,1)$ |A| $\left(\frac{X_1+X_2}{\overline{I_2.6}}\right)^2-X^2(1)$ (X1-X2)2-X2(1) 由 S= 1 (X;-x)2 $=\frac{(n-1)s^2}{6^2}=\frac{\pi}{2}\left(\frac{\chi_{i-}\chi}{6}\right)^2 \chi^2(n-1)$ $|X| = \left(\frac{X_1 + X_2}{\hat{X} - X_2}\right)^2 - F(1/1)$ $|R| = \frac{|X_{n+1} - X|}{\sqrt{\frac{n+1}{h}}} = \sqrt{\frac{(n-1)^{2^{2}}}{6^{2}}} = \sqrt{(n-1)}$

11) Y~ t(1-1)