Rupeeb K. 8381

(4a)

$$F_{\varepsilon}(x) = \begin{cases} 0, x \leq -2 & h = \beta(\varepsilon) \\ \frac{1}{8}, x \in (-2, -1] & \beta(1) = 19 + 2 + 2 + 2 + 2 + 2 \\ \frac{1}{2}, x \in (0, 2] & h = \varepsilon^{9} - \varepsilon^{2} + 2 \\ \frac{1}{2}, x \geq 2 & F_{\eta}(x) - ? \end{cases}$$

$$\frac{\mathcal{E}|-2|-1}{||0||2||\mathcal{E}|}$$
 $\frac{\mathcal{E}|-2|-1}{||0||2||\mathcal{E}|}$
 $\frac{||0||}{||2||}$
 $\frac{||6|||2||1}{||2||}$
 $\frac{||6|||2||1}{||6||}$
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Fr(x)=P(ncx)

$$\frac{1}{\sqrt{n+1}} = \frac{1}{\sqrt{2}} \times x$$

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$$\frac{1}$$

E 1 2 3 n P 1/2 1/6 1/12 1/n(n+1)

(18) FE(x) = {0, x \in \(\n - 1, n \) \, n = 1, 2, ... n=G(E);G(t)=sinfit, ter n=sinke; (Fn(x)-?) 1-n-(1-n+1)=-1-n=-(n+1)

Mpu
$$\forall \mathcal{E}: \eta = \sin \mathcal{E} = 0$$

$$\frac{\eta}{\rho} = 0$$

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$$P_{1}(x) = P_{E}(G(x)) | G(G(x))|$$

$$G(x) = \frac{x-6}{a}$$

$$G(x) = \frac{1}{a} = \frac{1}{a(x)} \cdot exp(\frac{-(x-6)^{2}}{2})$$

$$P_{E}(x) = \frac{1}{a} = \frac{1}{a}$$

Glt)=at+b, teR, 9, b-const

kenpep, morem.

BD PE(X) = 1 exp(-x2), xER

Thus = 0,
$$x \ge -1$$

Figure = 1, $x > 1$

Figure = 2, $x \in H_1$

Thus = P($x \in H_1$)

Figure = P($x \in H_1$)

Figur

fn(x)=0, x =-1

Fn (x) = 1, x > 1

$$= \frac{1}{2} \int \sin t \, dt = \frac{x+1}{2}$$

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Phu = Fn(x)

82) PE(X) = 1/2 exp(-1x1), xER G(t)=t? teR Kommens pacapet. n colon. c [0,00)

$$F_{n}(x) = P(n cx) = P(\xi^{2}cx) = P(|\xi|cx) = P(-5x^{2}c \xi c 5x^{2}) = \frac{5^{2}}{2} \exp(-141)dt = 2\frac{1}{2} \int_{0}^{\infty} \exp(-141)dt = 1 - \exp(-5x^{2})$$

=
$$\int_{-\sqrt{x}}^{1/2} \exp(-141) dt = 2 \frac{1}{2} \int_{0}^{2} \exp(-141) dt = 1 - \exp(-5x^{2})$$

 $= \int_{-\sqrt{x}}^{1/2} \exp(-141) dt = 2 \frac{1}{2} \int_{0}^{2} \exp(-141) dt = 1 - \exp(-5x^{2})$

$$P_n(x) = \{1 - exp(-5x), x>0\}$$

$$P_n(x) = F_n(x) \Rightarrow P_n(x) = \begin{cases} 0, x \le 0 \\ -exp(-5x) \end{cases}, x>0$$