1. drx, en G) + d(x, F) = 0 @ x e(R^1 G) A F = b , 故 f(x) 分耳恒正, 即f里良定的

而又+VX,4/Z d(x,z)-d(4,z) = d(x,y) => d(x,x) = d(y,z)+d(x,y) Zin取in(有 d(x,x)-d(y,x) < d(x,y)

同理 d(4,F)-d(x,F) & d(x,4) => |d(x,F)-d(4,F)| & d(x,4) 即位较

20) fell, 当[70日] RI3张简单使 RP2f , 由DC7 [f'am = Lim] YK dM

HOIDT, \$6 1-1+1- El'0

山阳证明所稀函数在简单函数中和密,而对任意E可以存在MED(SE)<至 Y= 高Xe: 11Xe-4110 < 至

(3) 只用证明从及条件 VE70 39 E CE(R) SI 1XR-911p < 至 以 p 使 m(R 1R) < EP

LINGSON / BE BYE GCR) S.t OSYS 9=1 ON R 9=0 ON R"IR

141178-9/18 (1)) ? < E

2.14,17,20,21,19

14.(0) & A= S(x,4) ERXR | DEY = 5x2-x2)

Rym(A)==m(B)=/a12-x2 dx =>m(B)=2/a/a2x2 dx-221/(1-x2)2 dx

(的会支持在RO中 A=(1/14) ERXR O< Yd = 1/2-(x,3--(x+1)

1 -1(y)=2m(A) = 2 \int 1 \int

$$= 21^{d} \int_{-1}^{1} V_{d-1} \cdot (1-x_1^2)^{\frac{d-1}{2}} dx_1$$

(c)用(a)目(内, 2月(正元)= [。(1-x²)] 即引

(c)
$$\mathbb{R}_{0}$$
 $\mathbb{E}[H_{0}] = H_{0}(1-x^{2})^{\frac{1}{2}} \mathbb{R}_{0}^{\frac{1}{2}}$

$$\mathbb{R}_{0} = H_{0}(1-t)^{\frac{d-1}{2}} \cdot \frac{1}{2}t^{-\frac{1}{2}} dt = B(\frac{1}{2},\frac{d+1}{2}) \cdot \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2}(\frac{d+\frac{1}{2}}{2}) = \mathbb{R}_{0} \cdot \frac{7(\frac{d+\frac{1}{2}}{2})}{7(\frac{d+1}{2})} = \mathbb{R}_{0} \cdot \frac{7(\frac{d+\frac{1}{2}}{2})}{7(\frac{d+1}{2})} = \mathbb{R}_{0} \cdot \frac{7(\frac{d+\frac{1}{2}}{2})}{7(\frac{d+1}{2})} = \mathbb{R}_{0} \cdot \frac{7(\frac{d+\frac{1}{2})}{7(\frac{d+1}{2})}}{7(\frac{d+1}{2})} = \mathbb{R}_{0} \cdot \frac{7(\frac{d+1}{2})}{7(\frac{d+1}{2})}$$

17. $\exists n \in \forall \leq n \in \exists \exists \exists f^{\forall}(x) = \begin{cases} a_n & n \in x < n \exists f \\ -a_n & n \in x < n \end{cases}$ $\begin{cases} a_n \in \forall \leq n \in x \in x \\ -a_n & n \in x < n \end{cases}$ ntl<4< nt 2

 $\exists n=0 \exists \uparrow \int_{0}^{M(x)} = \begin{cases} a_{0} & o \leq x \leq 1 \\ & \exists \int_{0}^{M(x)} dx dy = \sum_{n=0}^{\infty} \int_{0}^{M(x)} (a_{n}-a_{n-1}) = S \end{cases}$

只1(01(b)之得

(c)/21/1/22= an 200

20-GC=SECR21E3是R±网的el袋)
OZHV OCR'开保,(MY)EO, 3BE(MY)CO⇒ BE(M)CO" => O C C
②《用9全证C星6-作数
(1)显然 中,R°∈C
(2) BECC , (EY) U(E') Y-R =) ECC C
(3) BEN CC , RI (DEN) = DE (EN) = DE EN CC
24. (a) 由 p36, 3.9 f(木生)可次(),由定文 g(生)可次() 二つ f(木生) g(生) 可次()
(b) [R14 f(x, y) q(y) = R14 R24 (x, y) q(y) ≤ f L1 < ∞
(c)由Fubini, 包里
(d) BP(b)
(e)有界片(E))=[Ralf(X)] ax EM
连次 由于 e ^{221×21} 连定
\downarrow
当至,→至日, f(x) e-2xix5·-> f(x) e-2xix6·由 由 生生剂 4x至为至于至于至
$\mathcal{E}_{\mathcal{E}}\left\{\left(\mathcal{E}_{i}\right)-\hat{\mathcal{J}}\left(\mathcal{E}_{i}\right)\right\}\leq M\cdot\frac{\mathcal{E}}{M}\cdot\mathcal{E}$
9517: f.g(E) = [pd([pdf(x4)9(4) dy) e-2x;x & dx = [pd 9(4) e-2x;42 dy]pd f(x4) e-2x;(x-4) & dx
$= f(s) \cdot \hat{g}(s)$
19. felicka) Ry [801 f(x) bax = 180 100 X11(x) bad = 180 100 XE2 43 = 100 180 XE2 43
$= \int_0^\infty m(Ea^{\frac{1}{p}}) dA = \int_0^\infty m(Ea) \lambda^{p-1} p dA$

