a). 非敌: (4.4) & R. 非对称: (2.4) & R 但 L4.2) & R. 非敌对称: (2.3) 和 (3.2)均 & R. 磁道.

(2)はいではよりはようてはいこう。

所建筑。(自己)建筑)

- b). 自反: Yx (xeA > (x.x)eR). 对称. Yx Yy (x,y)eR > yy x)eR) 料效对称: (1.2). 和·(2·1)均 ER. 改变.
- d). 中飲: bx lxeA > (x.x)eR). 非对称: bx by l(x,y)eR -> (y.x)eR)

 女对称: bx by ((xy)eR -> (y.x)eR). 非磁: ((1.2), (2.3) -> (1.3)el R

 (2.3), (3.4) -> (24)el R
- e), 鱼友: Yx(xEA → (x.x)GR) 本部 Yx Hy Lixy)GR→ (y.x)GR) (x.x)GR) 本部: Yx Hy ((x.y)GRA (y.x)GR→x=y) 上後達:
- f), 难放、Yx(xGA→(xx)&R). 难对称: (1.4) ER 但(4.1) GR. 难效称: (1.3), (3.1)均 GR. 非悠逸: (1.3), (3.1)→(1.1) &R.
- (3). a). 每反析. L. 你回面所回a. (a.a) eR). 难对你 (a.b) e. R. 但 (b.a) 不一定 e. R.). 难反对称. 在链. (a.b). (b.c) 均 e. R. 则有(a.c) e.R.)

b). 难自文. (La.a) & R). 对称 (a,b) GR则有(b,a) GR) 准文对称.、维捷克. (ca.b). (b.c) GR. 不一定有(a.c) GR) C) 国友 (Erx (XGA. -> Cx. X) ER) 对称. (ca.b) ER 则(b.a) ER) (513) 推放对你门上上的祖本在中的 据选 (a.b). (b.C). GR 不一定有(a.C). GR d) 难宜反。(a.a)不定日尺。 对称((ia.b) ER — (ba) ER) A) (ch) (+c) 附在文本 的中国农主的人人或是自己的政策定义。非对相关的一种的人种人的和 SPORE (a.b). (b.c) ER AN CO.C). GR. NYXV MITTER (23) (34) 7 (24) \$ R e) $dx : \forall x (x \in A \rightarrow (x \times x) \in x)$ 22.(a) 对称 2 2 2 1) XX 器 b), 反对称: 12°3 2 100-11 (10-1x < 59(x 1) 1x x (1x x) 1 d) 反自反: 2nun-1) e) 自负和对称·2型,不在0.01.010产展的。2011年 f1. 配不自反也不反自反: 12n20 2min-1) (190(3面海 DO 时(3d) (48)). 通道。

24. ⇒ 若 R是对称前且 (a.b) ER. 则(b.a) GR 则 (b.a) G R - 则 R C R - 1 同理 R - C R . 则 R = R - 1 ← 若R=R-1. 例 (a.b) GR 则 (a.b) GR-1 風 (b.a) GR-1. I) (b.a) & R. I) R是对你到

山 数单归纳法: 当儿—1 明显 显然成立 和自己 发展来

b).
$$\begin{bmatrix} 0 & 1 & 0 \\ 1 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix} a \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

6. 将矩阵中向个下更为0. 与个0更为1 中 立为行时一小

7.
$$(na)$$
, $np=1$, (na) , $($

C).
$$\mathbb{R}^2 : \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$$

1-5(3) (A) (R) (E) (P) (P) (P) (A) (A) (B) (B) (B) (B) 1 1) 自取为展习和 只要(成分) 1 四月10: 非飲:元母环· 非对称:有 a > b 元 b - 2 b 图11: 北京文:元自环 推对税:南亚于日元为一名。 (V)灰鱼反: 元郎 及对歌(V) 推览道: 有 b->a, a-> C, 元 b-> C. 的一数学习的法门。 假设n=k时成立。即Meckl 表示Rk的距阵了下午前题件 URk+1 = RkoR 英超阵为 Mpk OMR = Mpth OMR=Mpth1).

扫描全能王 创建

a) 或文别包: rix)= {0.0). (0.1). (1.1). (1.2) (2.0) (2.2). (3.0) (3.3)]

b) 新知包: 5cz)={(0.1),(1.0),(1.2)(2.1),(2.0)(2.2)(3.0)(0.3)} (6.2)

7. ? R的对称闭包是 RURC. MRURC = MRV MRE = MRV MRT

Mexic Mx IMRED VICER & MOSEL (a). 南学生C. L和C至y有一个公共课. C和b至y有一个公共课. (a.b) GR2

b) 有学生c.d. a.c到j有-刊公共课. .cd到有-引公共课. d. b到有一门公共课 即 (a.b) G R3
d) a.b到有一门公共课 即 (a.b) G R3

 $|| (R^*)^{-1} = ((R^n)^{-1} = (R^n)^{-1}$

12. a). 2. [0100] Mp* = Mp. V. Mp[2] - V. Mp[3] V. M. R. W.]

3. AF [1 1 0]

1 = (24) = (2) = 67 (1) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2) = (2)

b)
$$MR = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix}$$
 $MM^* = MRVMR^{P}V$

14. a). 每分数.

{ (1.1). (1.2) (1.4). (2.2). (3.3). (4.1). (4.2). (4.4). [

b).对积早战道.

{ (1.1). (1.2). (1.4). (2.1). (2.2) (2.4). (3.3). (4.1). (4.2). (4.4)}

C). 自反. 对称. 广俊道.

[(1.1). (1.2). (1.4). (2.1). (2.2). (2.4). (3.3). (4.1). (4.2). (4.4)