Chap (O_6 有 G, V(G)) = 9 题中条件 3 K4 E G \sim 3 象 k3 E G $\frac{3}{4}$ $\frac{3}{4}$

①如有 习(Vi) 75, 那么因为 新菜 是 d(Vi) 345, 则肯定有 习 d(Vj) 强 26

考虑这6个多点,有 R(3,3)=6. (引 理 1) 也就是说这6个点之间 $\exists k_3 \in G_6$ $ov \exists k_3 \in G_6$ 引理 1 证明: 用 Pigeonhole Principle 就很明显 如果有 $\exists k_3 \in G_6$ \Rightarrow 3 人不相识 如有 $\exists k_3 \in G_6$ \Rightarrow 此 3 人 加 $\vdash V_1$ 就 4 人相识

② 如 型 d(vi) 75 => d(vi) <5 \ \text{

Chap 2

Q13 a_{ij} : a_{23} a_{35} a_{15} a_{15} a_{24} a_{45} a_{24} a_{24} a_{25} a_{14} lij: 26 27 29 33 24 35 38 42 49 52 n=5 $d(1) = d(a_{23}$ a_{35} a_{15} a_{15} a_{15} a_{24} a_{24}) \Rightarrow NA 4 4 7 3 4 10 d(1) = d(1) = d(1) = d(1) = d(1) = d(1) = d(1) d(1) = d(1) =

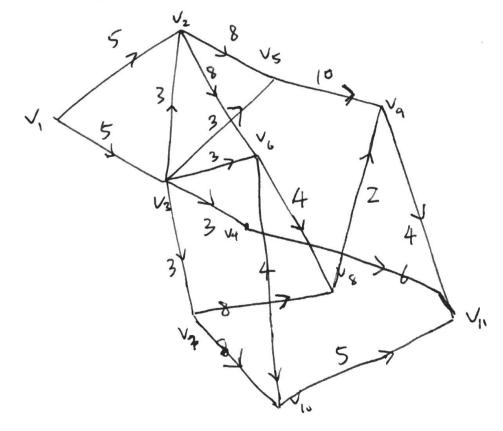
 $d(a_{23} \ a_{15} \ a_{13} \ a_{45} \ a_{24}) = 161$ $d(a_{23} \ a_{15} \ a_{34} \ a_{45} \ a_{24}) \Rightarrow NA$

▲ 停止探寻

步骤其中省去若干不能形成 Hamiltonian Cycle 的 d(·)值

最优解 4=16)

Q17 (a)



$$Q(1) = 0$$
 $T(1) = 0$
 $T(4) = 8$
 $T(1) = 8$
 $T(1) = 8$

$$\pi(1) = 0$$
 $\pi(2) = \max(5, 8) = 8$ $\pi(3) = 5$

$$\pi(4) = 8$$
 $\pi(5) = \max(16, 8) = 16$ $\pi(6) = 16$

$$\pi(7) = 8$$
 $\pi(8) = \max(20, 16) = 20$ $\pi(9) = (26, 22) = 26$

$$\pi(10) = \max(20, 16) = 20$$
 $\pi(11) = \max(25, 14, 30) = 30$

关键路径: 安里小了了少分小

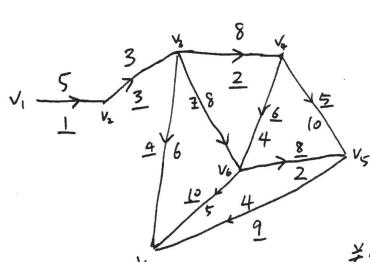
30
$$t(3) = t(5) = 0$$

工序3,5 在关键路径上,不可延误
$$t(10) = T(10) - T(10) = 5$$

$$t(10) = T(10) - T(10) = 0$$

Q17 (6)

关键路径与延误和上



 $\pi(1) = 0$ $\pi(3) = 8$ $\pi(3) = 16$ Tr (4)=14 Tr(5)=

$$\pi(1) = 0$$
 $\pi(2) = 5$ $\pi(3) = 8$

$$\pi(4) = 16 \pi(5) = 26$$

$$\pi(6) = 20 \quad \pi(7) = 30$$

关键路径: 443 445 4

$$t(3) = t(5) = 0$$
 $t(10) = 5$

练习题

$$\pi(1) = 0$$
 $\pi(2) = 3$ $\pi(3) = 7$ $\pi(4) = 10$
 $\pi(5) = \max(\pi(2) + 4, \pi(3) + 3) = 10$ $\pi(6) = 16$
 $\pi(7) = \max(\pi(5) + 6, \pi(4) + 5) = 16$

$$\pi(8) = \max(\pi(6) + 5, \pi(7) + 1) = 21$$
 $\pi(9) = \max(\pi(5) + 6, \pi(8) + 1) = 22$
关键整络径:
 $V_1 V_2 V_2 V_5 V_6 V_8 V_9$

$$T(9) = 22$$
 $T(8) = 21$ $T(7) = T(8) - 1 = 20$
 $T(6) = 16$ $T(5) = 10$ $T(4) = T(7) - 5 = 15$
 $T(3) = 7$ $T(2) = 3$ $T(1) = 0$

$$t(1) = t(2) = t(3) = t(5) = t(6) = t(8) = t(9) = 0$$

 $t(4) = 15 - 10 = 5$ $t(7) = 4$