

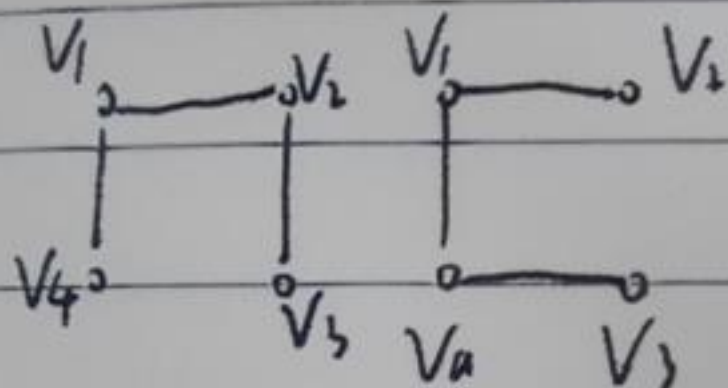
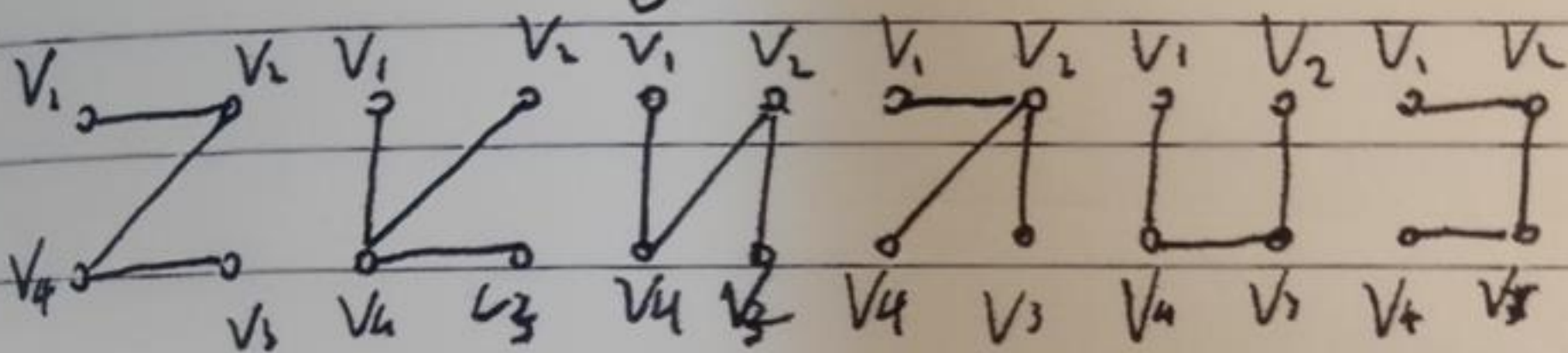
图论 221103

题九. 9. $\tau(G) = \tau(K_4) - \tau(\text{diagram})$

$$= 4^{4-2} - \tau(\text{diagram}) - \tau(\text{diagram})$$

$$= 16 - 4 - 4$$

$$= 8$$



10. $C_a = a j d g e$, $C_b = b i j d g$, $C_c = c d g$, $C_f = e f g$, $C_h = h i j$

基本回路系统 $\{C_a, C_b, C_c, C_f, C_h\}$

$S_d = \{d, c, b, a\}$, $S_e = \{e, f, a\}$, $S_g = \{a, b, c, f, g\}$

$S_i = \{b, h, i\}$, $S_j = \{a, b, h, j\}$

基本割集系统 $\{S_d, S_e, S_g, S_i, S_j\}$