

$x_{dv} = 8, x_{bw} = 9, x_{ay} = 0$

$x_{ab} = 0, x_{cb} = 3, x_{ba} = 3$

$x_{bg} = 0, x_{gi} = -8$

$z_i = 0, z_w = z_x + z_{uv} \quad \forall uv \in E(G)$

$z_x = z_d + 3 \Rightarrow z_d = -3$

$z_a = z_d + 1 \Rightarrow z_a = -2$

$z_f = -2$

$z_b = -5$

$z_k = 0$

$z_c = -15$

$z_g = -4$

$z_i = 1$

$z_{uv} = z_u + z_v - z_w$

$z_{fx} = 11 - 2 - 0 = 9$

$z_{fc} = z_f + z_c - z_e$
 $= 5 + (-2) + 15 = 18$

$z_{dk} = -2$

$z_{ka} = 8$

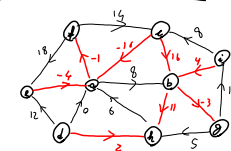
$z_{ca} = -1$

$z_{ic} = 3$

$z_{gh} = -1$

$z_{ia} = 8$

$z_{ib} = 17$



a.b enters the basis

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$\tilde{x}_{fa} = 0$

$\tilde{x}_{ab} = 16$

$\tilde{x}_{cb} = 0$

$\tilde{z}_{ab} = 9$

$\tilde{z}_{fx} = \tilde{z}_{fc} - \tilde{z}_{ab} = 16 - 8 = 8$

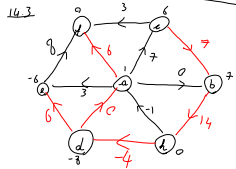
$\tilde{z}_{ab} = 0$

$\tilde{z}_{dx} = 12 + 9 = 21$

$\tilde{z}_{da} = 8$

$\tilde{z}_{ka} = 15$

$\tilde{z}_{ca} = 8$



$x_{dv} = 6, x_{ab} = 6$

$x_{af} = 0, x_{ba} = 13$

$x_{ad} = -1, x_{kd} = 13$

$z_c = 0, z_w = z_x + z_{uv} \quad \forall uv \in E(G)$

$z_b - z_c = z_{ab}$

$z_b - 0 = 7 \Rightarrow z_b = 7$

$z_k = 21$

$z_d = 17$

$z_c = 21$

$z_i = 17$

$z_f = 23$