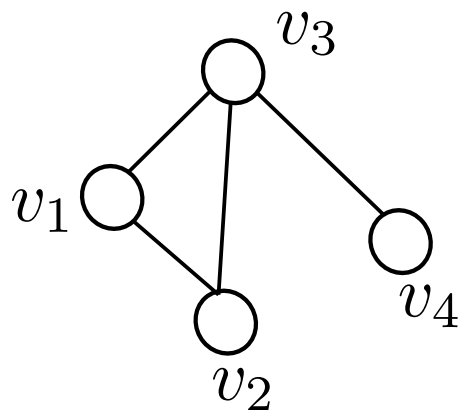


a)

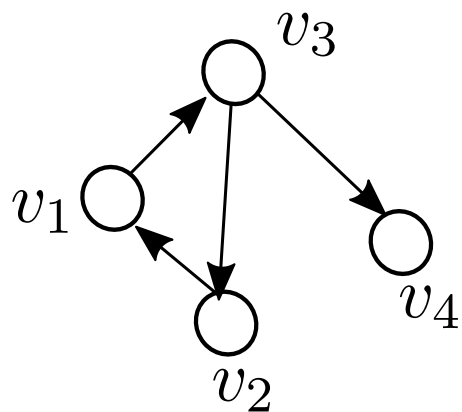


b)

$$A = \begin{pmatrix} 0 & 1 & 1 & 0 \\ 1 & 0 & 1 & 0 \\ 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 0 \end{pmatrix}$$

c)

$$\{ (v_1, v_3) \\ (v_1, v_2) \\ (v_2, v_3) \\ (v_3, v_4) \}$$



$$A = \begin{pmatrix} 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$

$$\{ (v_1, v_3) \\ (v_2, v_1) \\ (v_3, v_2) \\ (v_3, v_4) \}$$