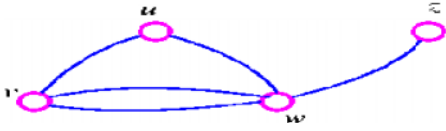
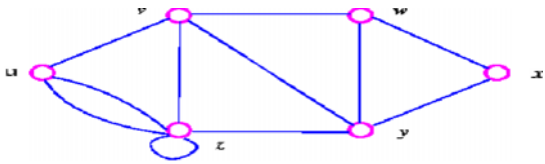


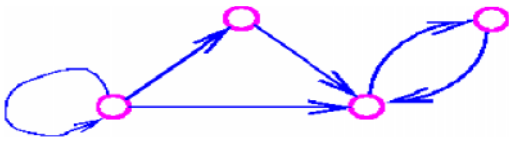
Find adjacency matrix



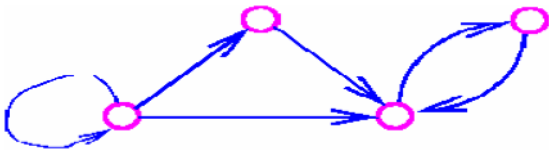
Find adjacency matrix



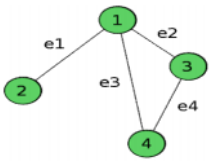
Find adjacency matrix



Find incidence matrix



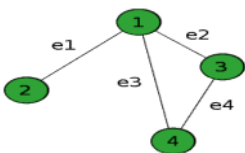
Find adjacency matrix



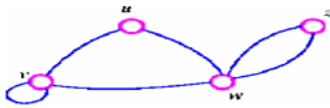
Find adjacency matrix

If the incidence matrix is
$$\begin{matrix} & 1 & 2 & 3 & 4 & 5 \\ \text{a} & \begin{bmatrix} -1 & -1 & 1 & 0 & 0 \\ 1 & 0 & 0 & -1 & 0 \\ 0 & 0 & -1 & 0 & 1 \\ 0 & 1 & 0 & 1 & -1 \end{bmatrix} \end{matrix}$$
 find the directed graph

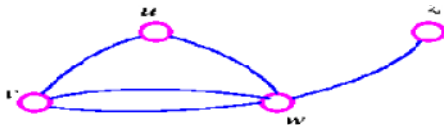
If the adjacency matrix is
$$\begin{pmatrix} 1 & 1 & 0 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \end{pmatrix}$$
 find the undirected graph



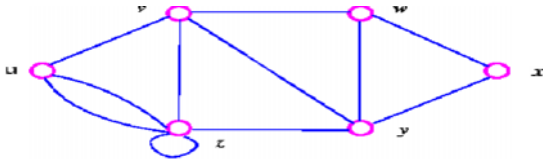
Find incidence matrix



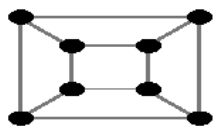
Find incidence matrix



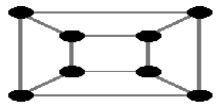
Find incidence matrix



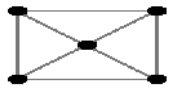
Find incidence matrix



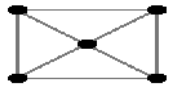
Find incidence matrix



Find adjacency matrix



Find incidence matrix



Find adjacency matrix

If the adjacency matrix is

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

Find the undirected graph

If the adjacency matrix is

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

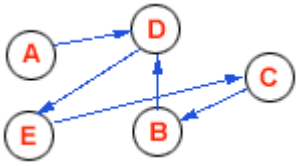
Find the undirected graph

If the adjacency matrix is

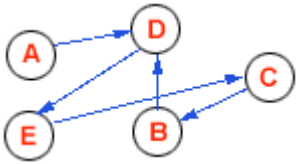
$$\begin{pmatrix} 0 & 1 & 1 & 1 \\ 1 & 0 & 1 & 1 \\ 1 & 1 & 0 & 1 \\ 1 & 1 & 1 & 0 \end{pmatrix}$$

Find the undirected graph

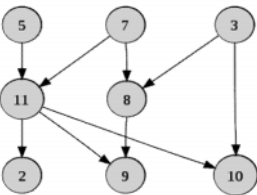
If the adjacency matrix is $\begin{pmatrix} 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 \\ 0 & 0 & 0 & 1 \\ 1 & 1 & 1 & 0 \end{pmatrix}$ Find the undirected graph



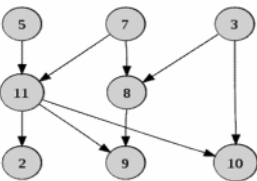
Find incidence matrix



Find adjacency matrix



Find adjacency matrix



Find incidence matrix

If the adjacency matrix is $\begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 1 & 1 & 0 \end{pmatrix}$ Find the undirected graph

Construct the linear equations to get the constants of curve $y = a \cos x + b \ln x + c/x$ to fit given data

Construct the linear equations to get the constants of curve $y = a \sin x + b e^x + cx^2$ to fit given data

Derive the general formula to compute $u(x,t)$ at each point of the mesh expressed by $u_{xx} + p u_t = a$

Construct the linear equations to get the constants of curve $y = 1/[ax+b]$ to fit given data

Construct the linear equations to get the constants of curve $y = a e^{bx}$

Derive the general formula to compute $u(x,t)$ at each point of the mesh expressed by $u_{xx} + p u_t = b$

Construct the linear equations to get the constants of curve $y = a \sin x + b \ln x + cx$ to fit given data
