

A diagram showing a graph with 10 nodes and 5 edges. The nodes are represented by colored rectangles with numbers inside. The edges are represented by colored arcs connecting the nodes. The nodes are: 1 (yellow), 2 (orange), 3 (red), 4 (cyan), 5 (cyan), 6 (green), 7 (yellow), 8 (orange), 9 (green), 10 (red). The edges are: (1,7) yellow, (2,8) orange, (3,10) red, (4,5) cyan, (6,9) green.

$$A = \begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 5 & 0 & 0 \\ \frac{5}{39} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5}{5} & 0 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & 0 & \frac{5}{39} & \frac{5}{39} & 0 \\ \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} \\ \frac{5}{39} & \frac{5}{39} & 0 & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & \frac{5}{39} & 0 \end{bmatrix}$$