

Attendance Quiz for Lecture 20

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. (a) Draw the graph whose incidence matrix is

$$\begin{bmatrix} 0 & 1 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 & 1 \\ 1 & 1 & 0 & 1 & 1 \\ 1 & 0 & 1 & 0 & 1 \\ 1 & 1 & 1 & 1 & 0 \end{bmatrix} .$$

(b) Find all the paths of length 3 joining vertex 1 to vertex 4.

(c) Find all the cycles of length 3