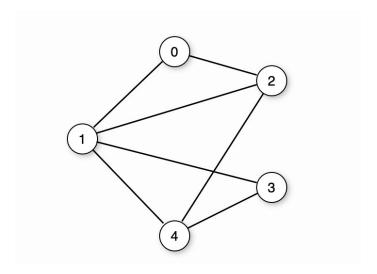
CSC 355. Discrete Structures and Basic Algorithms Homework Assignment 7. Graphs Theory

Question 1. True or False

A DAG is a dire	ected graph without cycles (Select if it is true or false and why).
○ True	
○ False	
Question 2. M	ultiple Choice (Select the right option and explain).
A simple path:	
allows repo	etition of vertices so long as no edge is repeated
omust have same	all vertices unique except that the first and last vertices are the
O must have	all vertices be unique
O None of th	e above
Question 3. M	ultiple Choice (Select the right option and explain).
A simple cycle:	
o allows repe	etition of vertices so long as the length of the path is less than 5
O must have	all vertices be unique
must have	all vertices unique except that the first and last vertices are the
O None of the	e above

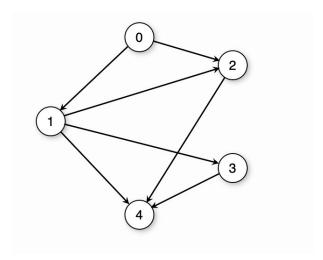
Question 4. Written Question

What is the degree of Vertex 4?



Question 5. Written Question.

What is the out degree of Vertex 1?



Submission Instructions

You must upload your homework in a **pdf** file in the designated area in D2L.

Grading Points

Total Score: 25 points

Each question has a value of 5 points.