UNIVERSITY OF SWAZILAND

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

SUPPLEMENTARY EXAMINATION, 2005

Title of Paper

Computer Graphics

Course Number

CS246

Time Allowed

Three Hours

Instructions

Answer ALL questions in Section A

Answer only THREE questions from Section B

All questions are worth 20 marks

Special requirement:

Graph paper

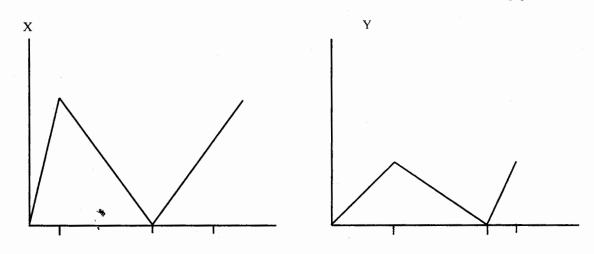
This paper should not be opened until permission has been granted by the invigilator.

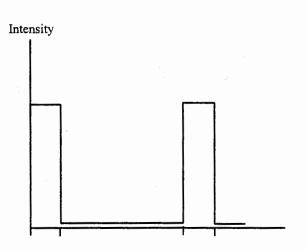
SECTION A

Answer all questions from this section.

- 1. (a) Discuss the differences between direct manipulation, menu driven and command driven user interfaces. [8]
 - (b) Briefly describe how people see objects. [2]
 - (c) Why should we study user interfaces alongside computer graphics? [2]
 - (d) Good user interfaces are difficult to produce due to some technical and human problems. Describe any:
 - two technical problems of this nature; [5]
 - one human problem which contributes to this.
- 2. (a) Describe how a vector graphics display works. [8]
 - (b) Vector display was a great improvement over and above printers as a form of output. Despite this improvement over printers, explain giving three reasons, why computer graphics was not of widespread use during the vector display era.
 - (c) Use a graph paper to draw the output resulting from the following signals, indicating all important points, time marks all at corresponding equal times:

[6]





SECTION B

Answer any three questions from this section.

