

# APSC 151 – Computer-Aided Engineering Graphics

Quiz 1, 7-8 October 2010

Open Book

Duration: 1 hour 50 minutes

Both questions of equal value

## Question 1:

There have been discussions for many years about a "fixed link" between Vancouver and Vancouver Island. A fixed link is some transportation connection which is usually available, rather than requiring a ferry for transport between Vancouver and Vancouver Island. The most famous recent "fixed links" are the Chunnel between England and France and the Confederation bridge which links Prince Edward Island with New Brunswick.

- 4th?
- Using the QFD method, identify three impacted/impacting parties whose needs must be considered while designing any "fixed link". For each interested party, explain briefly why that party's need to be considered. (Multiple parties which are judged to be too similar will be considered to be a single party.)
  - Generate a total of seven design requirements which must be satisfied by any proposed solution. (Quantification, setting of priorities and setting of target values are not required.)

→ Gulf Island Resident

→ Engineers and manufacturer

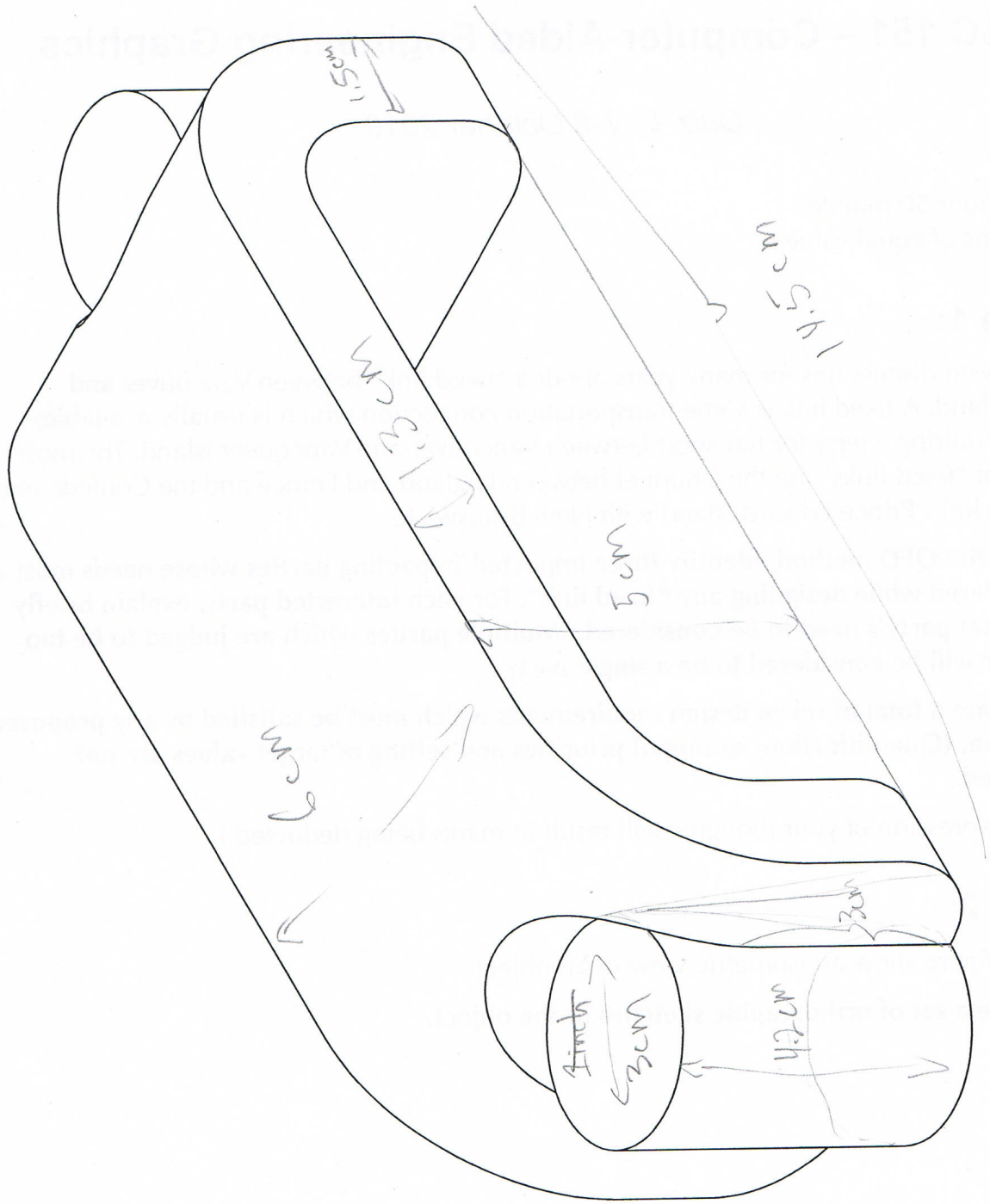
→ Users

(Note: poor expression of your thoughts will result in marks being deducted.)

## Question 2:

The attached figure show an isometric view of an object.

- Prepare a set of orthographic sketches of the object.



Drawn By:

Section:

Student No:

Applied Science 151

Date:

Scale: