



UNIVERSITY OF GHANA
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SCHOOL OF ENGINEERING SCIENCES
FIRST SEMESTER EXAMINATION 2014/2015

AREN 101: ENGINEERING GRAPHICS / FAEN 105: ENGINEERING DRAWING WITH CAD
(3 credits)

INSTRUCTIONS: ANSWER ALL QUESTIONS
DRAWING PAPERS (A3) WILL BE PROVIDED
TIME ALLOWED: THREE (3) HOURS

1. Construct the line of intersection and show the hidden details for the two figures whose coordinates are given below:

(15 marks)

	x	y	z	
A	75	40	8	Figure 1
B	50	10	35	
C	35	25	25	
D	65	30	40	Figure 2
E	15	30	40	
F	40	8	8	

2. The coordinates given below show a figure formed by triangles ABC and BCD joined at BC

a. Construct the figure with the hidden details on the vertical elevation. (5 marks)

b. Determine the true angle formed by the figure. (10 marks)

	x	y	z
A	80	20	25
B	60	5	40
C	20	15	10
D	40	30	5