



education

Department:
Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2009

MEMORANDUM

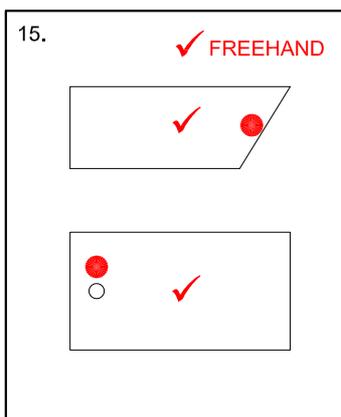
MARKS: 200

This memorandum consists of 5 pages.

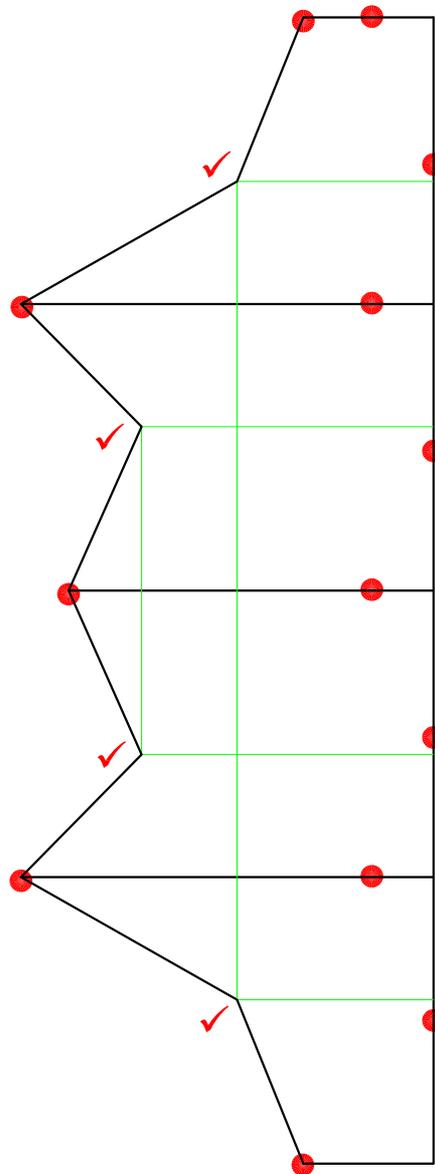
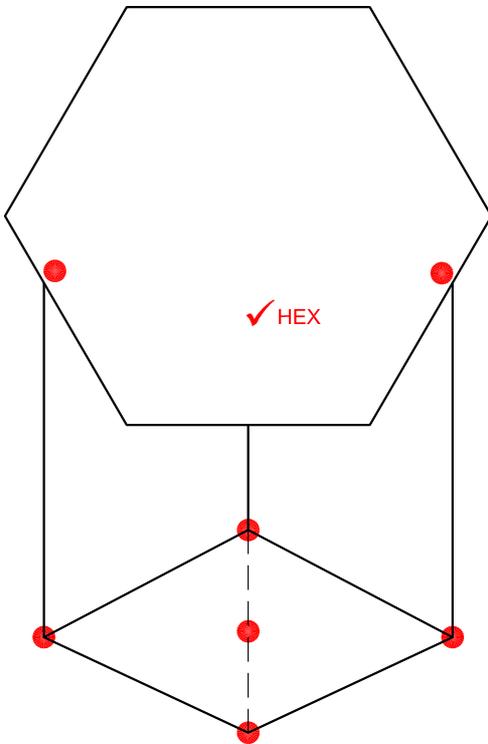
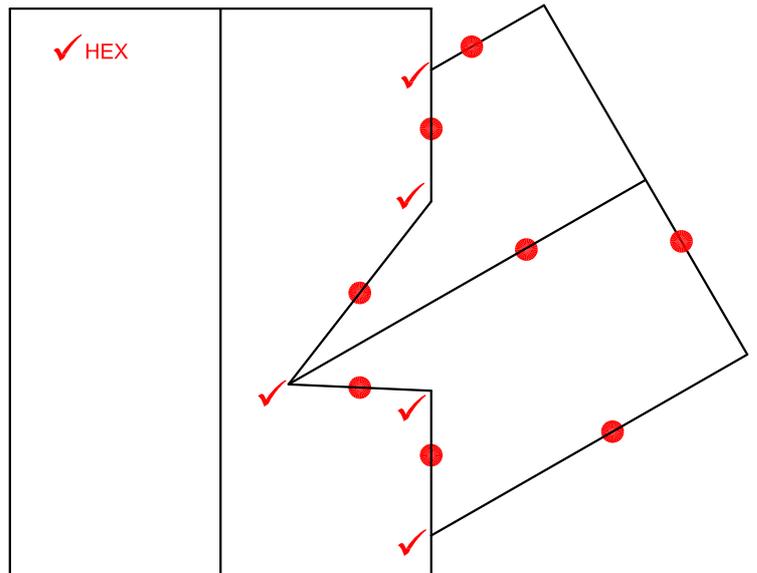
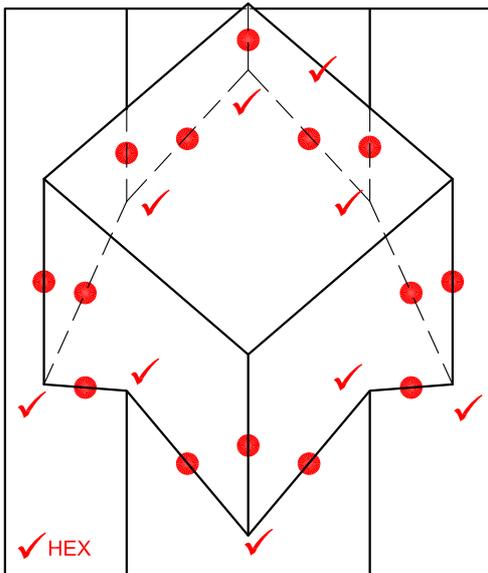
ANSWERS

1	6	1
2	ISLAND IN KITCHEN	1
3	2009-351	1
4	P MSOMI	1
5	1:100	1
6	GUTTER	1
7	FFL/FINISHED FLOOR LEVEL	1
8	NGL/GL	1
9	BUILT-IN CUPBOARD	1
10	WC	1
11	NORTH POINT	1
12	FLOOR PLAN	1
13	SOUTH ELEVATION	1
14	C; B; A; F; H	5
15		4
16	18°	1
17	BLACK	1
18	41,2	3
19	82,64 m ²	3

TOTAL: 30



PAPER 1 QUESTION 1
GRADE 12 NOVEMBER 2009
MEMORANDUM



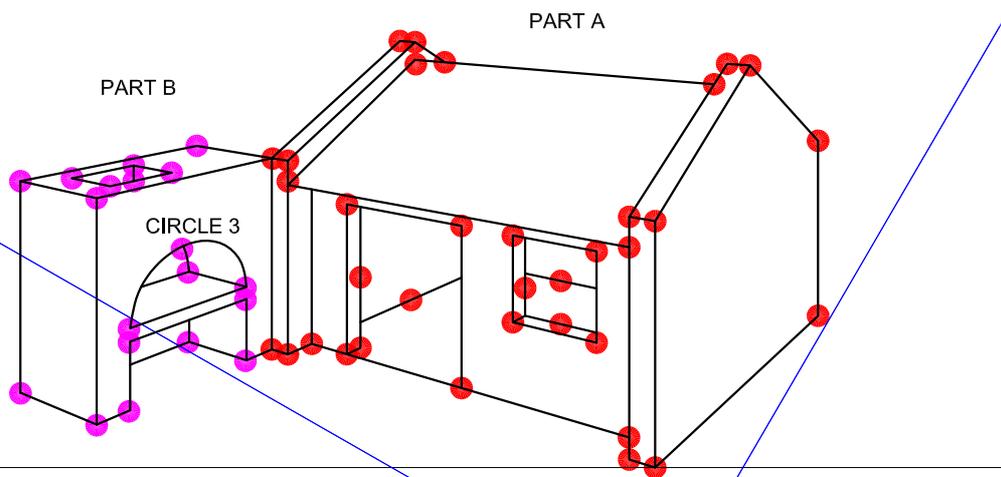
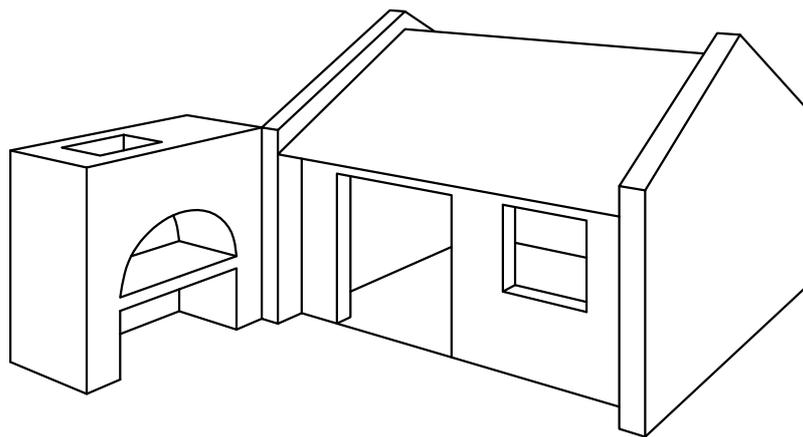
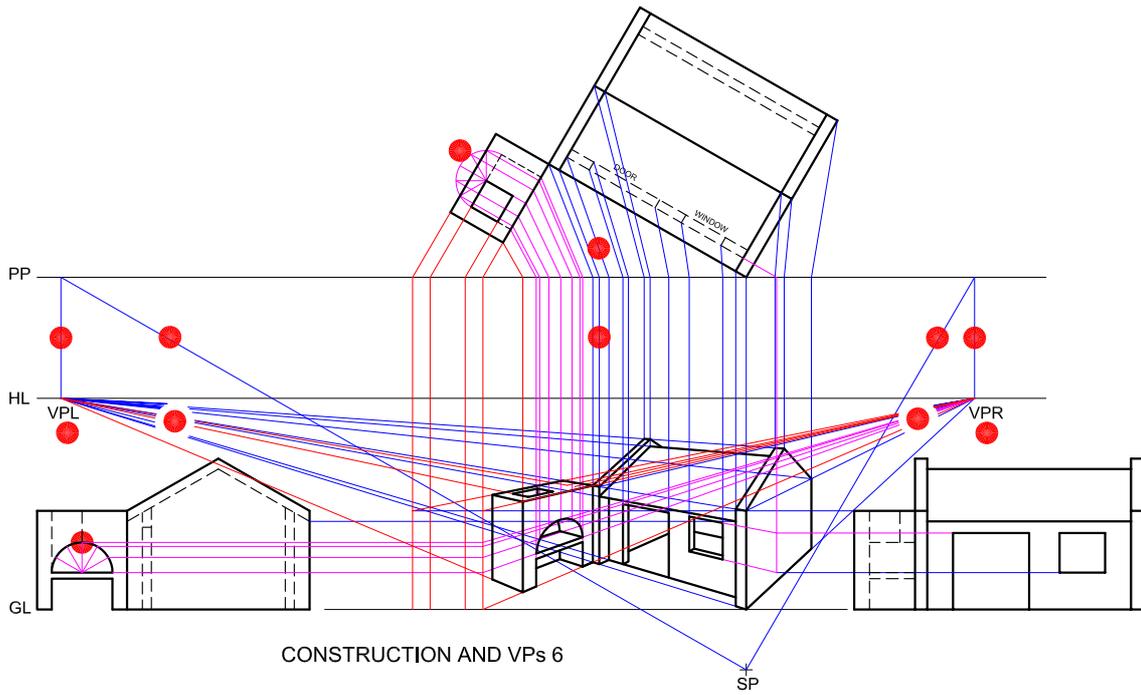
CONSTRUCTION AND PROJECTION OF SQUARE 2

● DEVELOPMENT

ASSESSMENT CRITERIA

TOP VIEW + CONSTR	6½
FRONT VIEW	17
LEFT VIEW	10
DEVELOPMENT	10½
TOTAL	44

PAPER 1 QUESTION 2
GRADE 12 NOVEMBER 2009
MEMORANDUM



ASSESSMENT CRITERIA

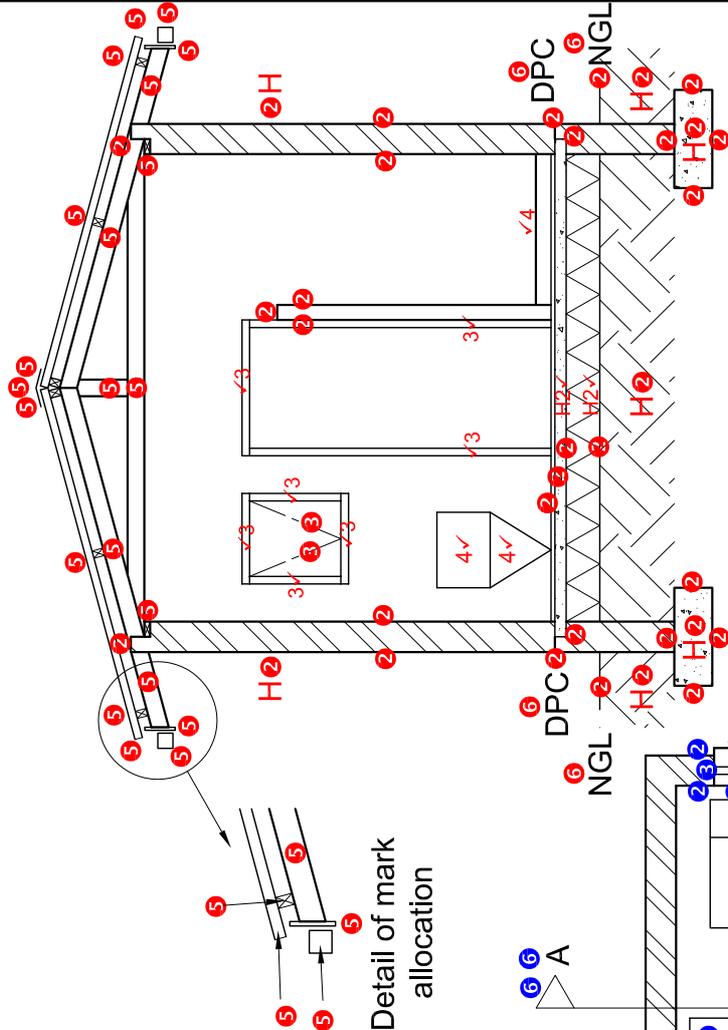
CONSTRUCTION + VPs	6
DWELLING (PART A)	17½
BRAAI (PART B + CIRCLE)	12½
TOTAL	36

PAPER 1 QUESTION 3
GRADE 12 NOVEMBER 2009
MEMORANDUM

SECTIONAL ELEVATION	
1 CORRECT SCALE	1
2 WALLS + FOUNDATION + HATCHING	19
3 WINDOW + DOORS	8
4 FIXTURES	3
5 ROOF	10½
6 LABELS	3
	44½

PLAN	
1 CORRECT SCALE	1
2 WALLS + HATCHING	17½
3 WINDOW + DOORS	7
4 FIXTURES	5
5 ELECTRICAL	10
6 LABELS + C/PLANE	5
	45½

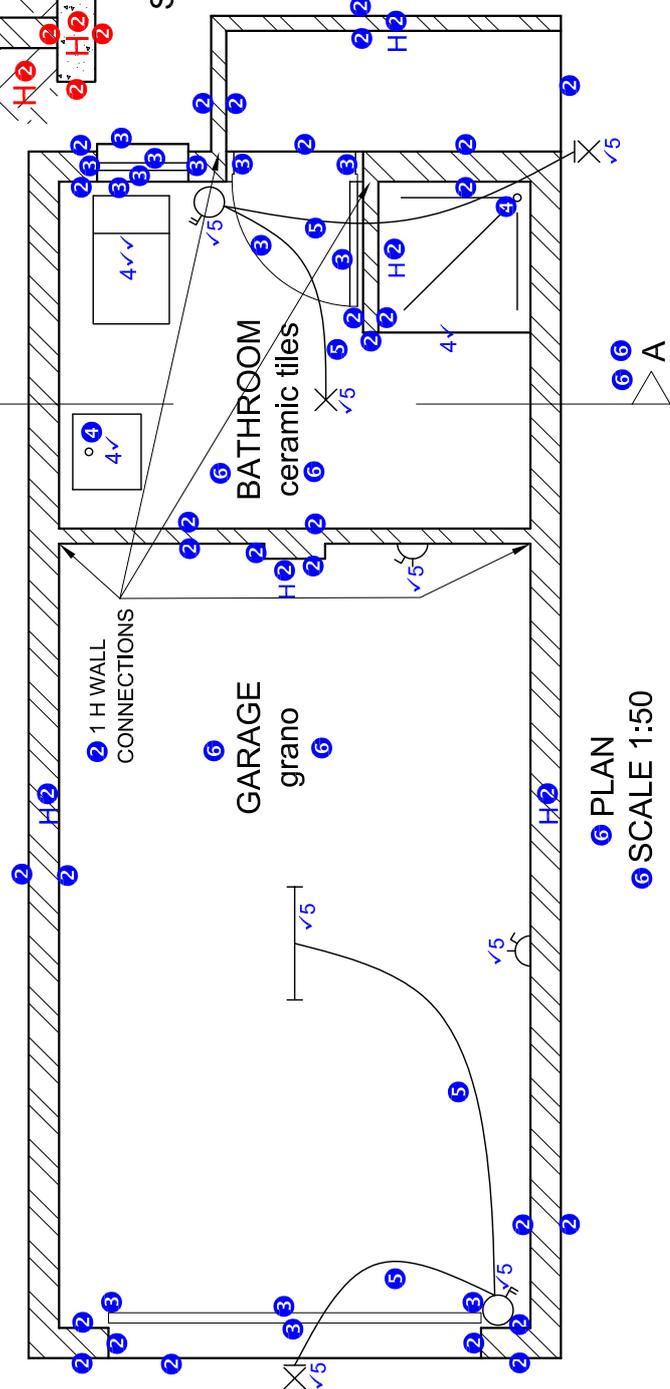
PAPER 1 QUESTION 4
 GRADE 12 NOVEMBER 2009
 MEMORANDUM



SECTIONAL ELEVATION ON A-A

Detail of mark allocation

Alternative answer



PLAN
 SCALE 1:50