



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P1

NOVEMBER 2013

MEMORANDUM

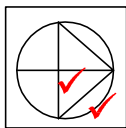
MARKS: 100

This memorandum consists of 7 pages.

ANSWERS		
1	2	1
2	2	1
3	114	1
4	3,5 m	1
5	MANHOLE	1
6	2,4 m	1
7	ADJACENT BUILDING/STRUCTURE	1
8	OUTBUILDING TO BE DEMOLISHED	1
9	DRIVEWAY	1
10	BOUNDARY LINE LENGTH	1
11	BUILDING LINE	1
12	7521	1
13	ES7245	1
14	AVOCADO	1
15	MILLIMETRES or mm	1
16	HIGHER	2
17	3,5 m	2
18	(See below.)	4
19	(See below.)	4
20	52 m [calculation 1, answer 1, metres 1]	3

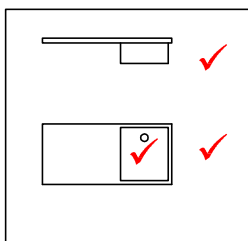
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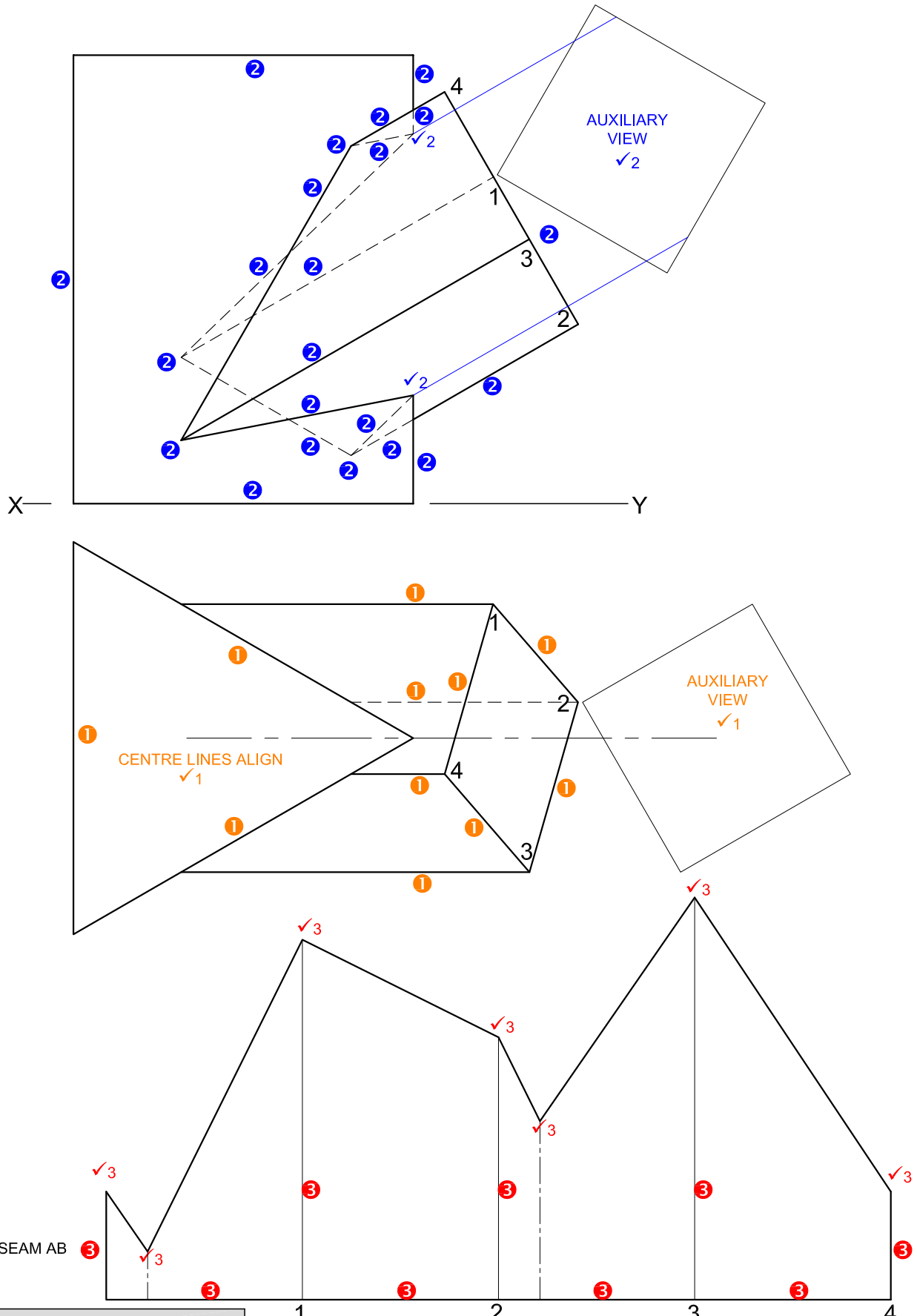
18

DIRECTION ✓
FREEHAND ✓

19

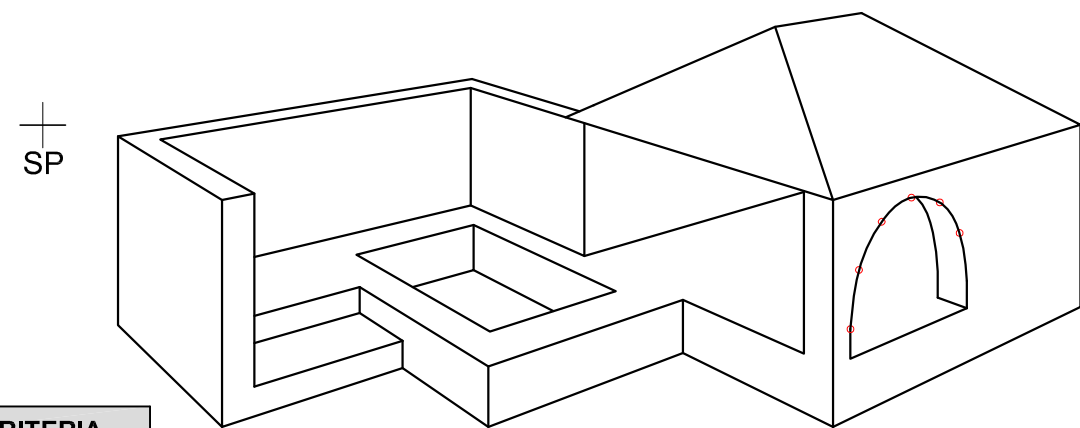
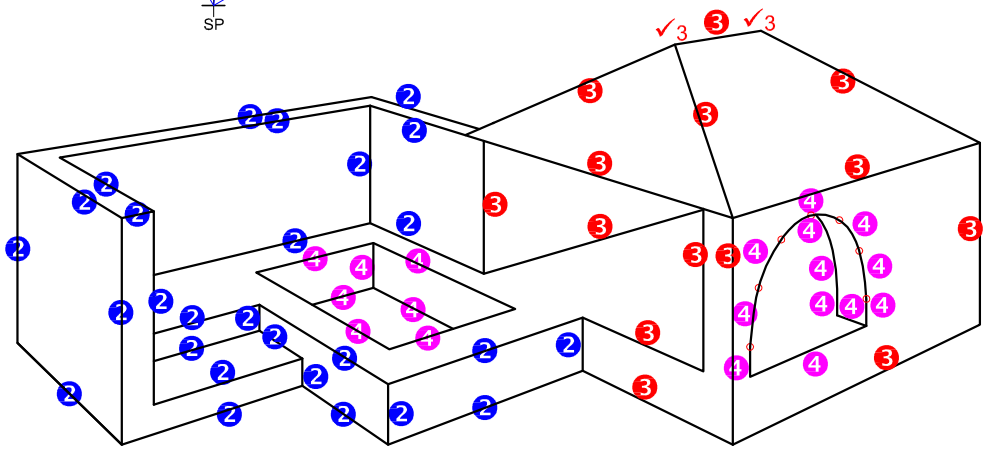
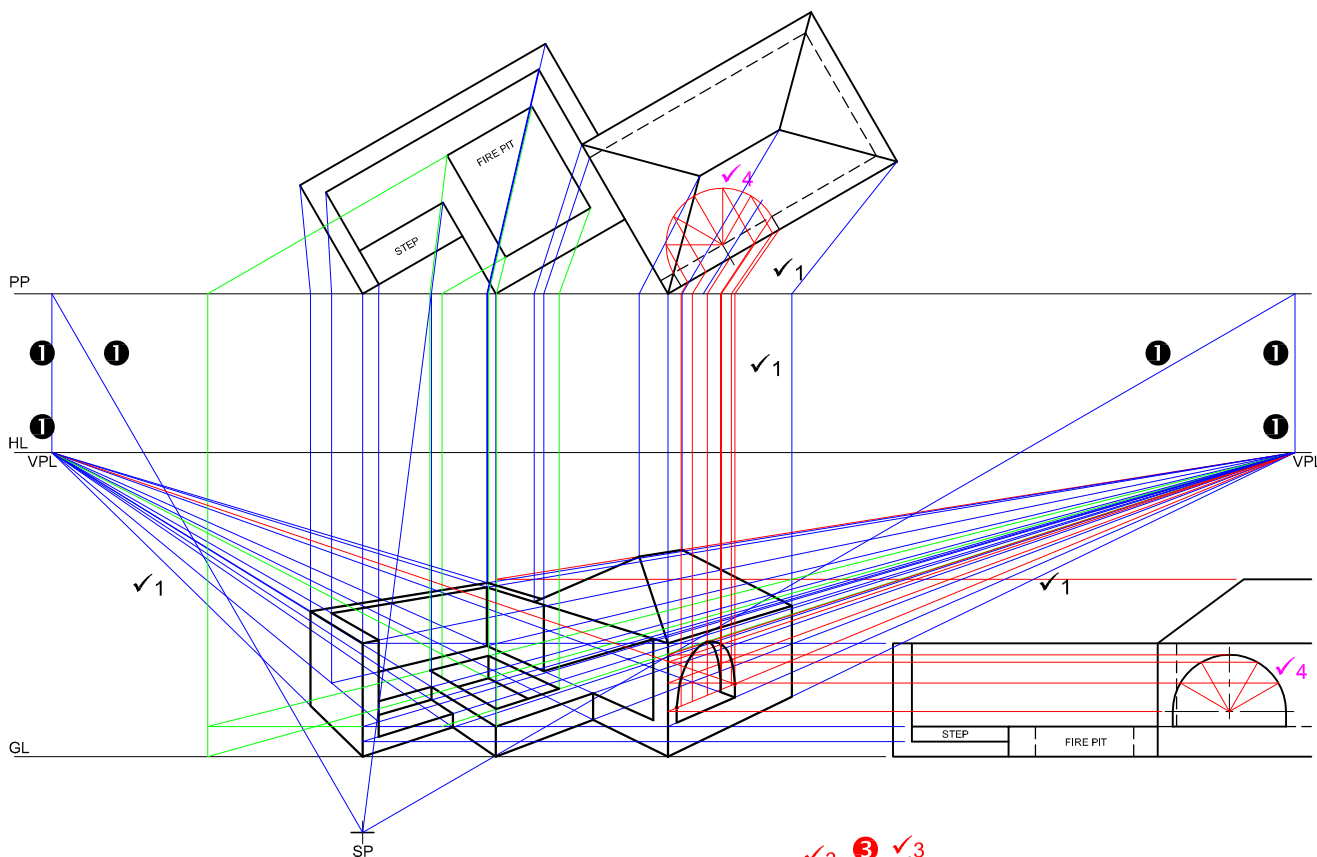
FREEHAND ✓

PAPER 1 QUESTION 1
GRADE 12
November 2013
MEMORANDUM



ASSESSMENT CRITERIA		
1	TOP VIEW	7½
2	FRONT VIEW	14
3	DEVELOPMENT	11½
TOTAL		33

PAPER 1 QUESTION 2
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 MEMORANDUM



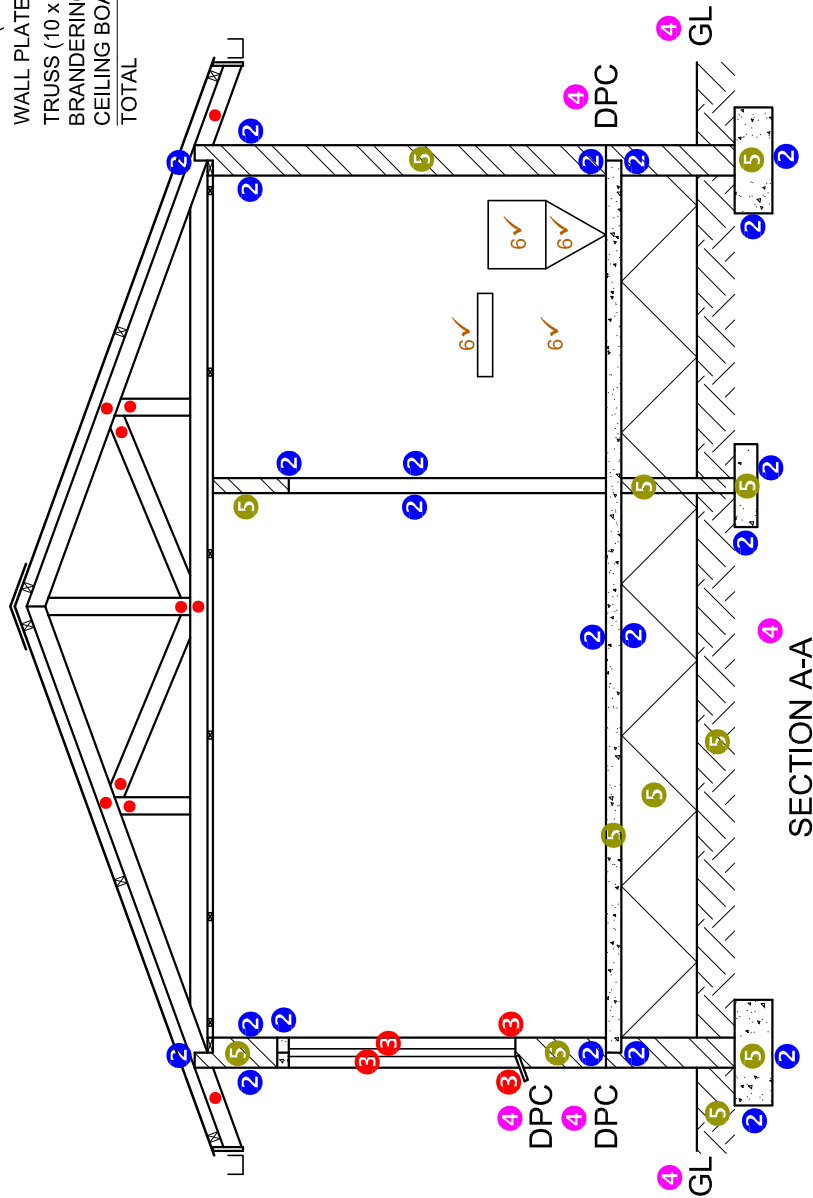
ASSESSMENT CRITERIA		
1	CONSTRUCTION + VPs	7
2	WALLS	13½
3	BUILDING + ROOF	9
4	ARCH + CONSTR' + PIT	11½
TOTAL		41

SP

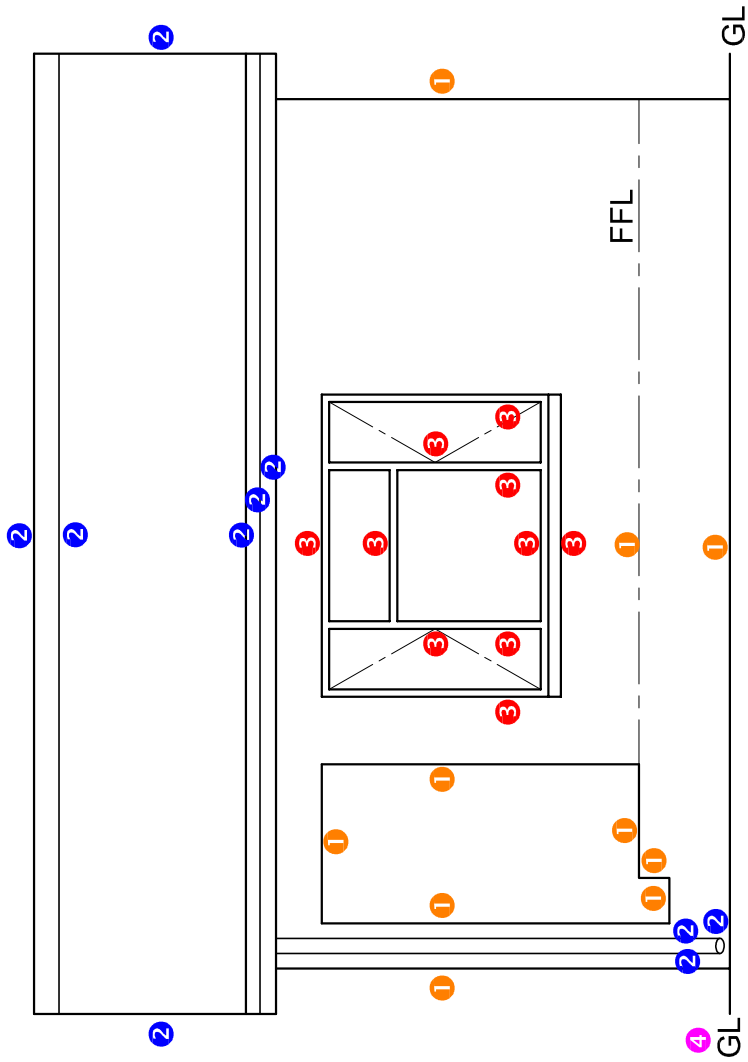
PAPER 1 QUESTION 3
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1 ROOF MARK ALLOCATION

CORRECT ANGLE	1
ROOF SHEET	2
ROOF CAP	1
PURLINS	2
FASCIA BOARD (2 x ½)	1
GUTTER (2 x ½)	1
WALL PLATE (2 x ½)	1
TRUSS (10 x ½)	5
BRANDING	1
CEILING BOARD	1
TOTAL	16



ASSESSMENT CRITERIA		
SECTIONAL ELEVATION		
1	ROOF	16
2	WALLS + FLOOR + FOUNDATIONS	11
3	WINDOW	2
4	LABELS	3
5	HATCHING	6
6	FIXTURES	4
SUBTOTAL		42



NORTH-EAST ELEVATION

ASSESSMENT CRITERIA		
NORTH-EAST ELEVATION		
1	WALLS + FFL	5
2	ROOF + GUTTER + RWDP	5
3	WINDOW	5
4	LABELS	1
SUBTOTAL		16