

**ISEBE LEMFUNDO LEMPUMA KOLONI
EASTERN CAPE EDUCATION DEPARTMENT
OOS-KAAP ONDERWYSDEPARTEMENT**

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

SEPTEMBER 2016

MEMORANDUM

MARKS: 200

TIME: 3 hours

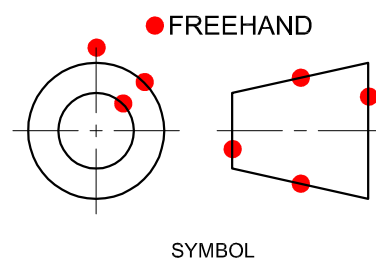
This memorandum consists of 6 pages.

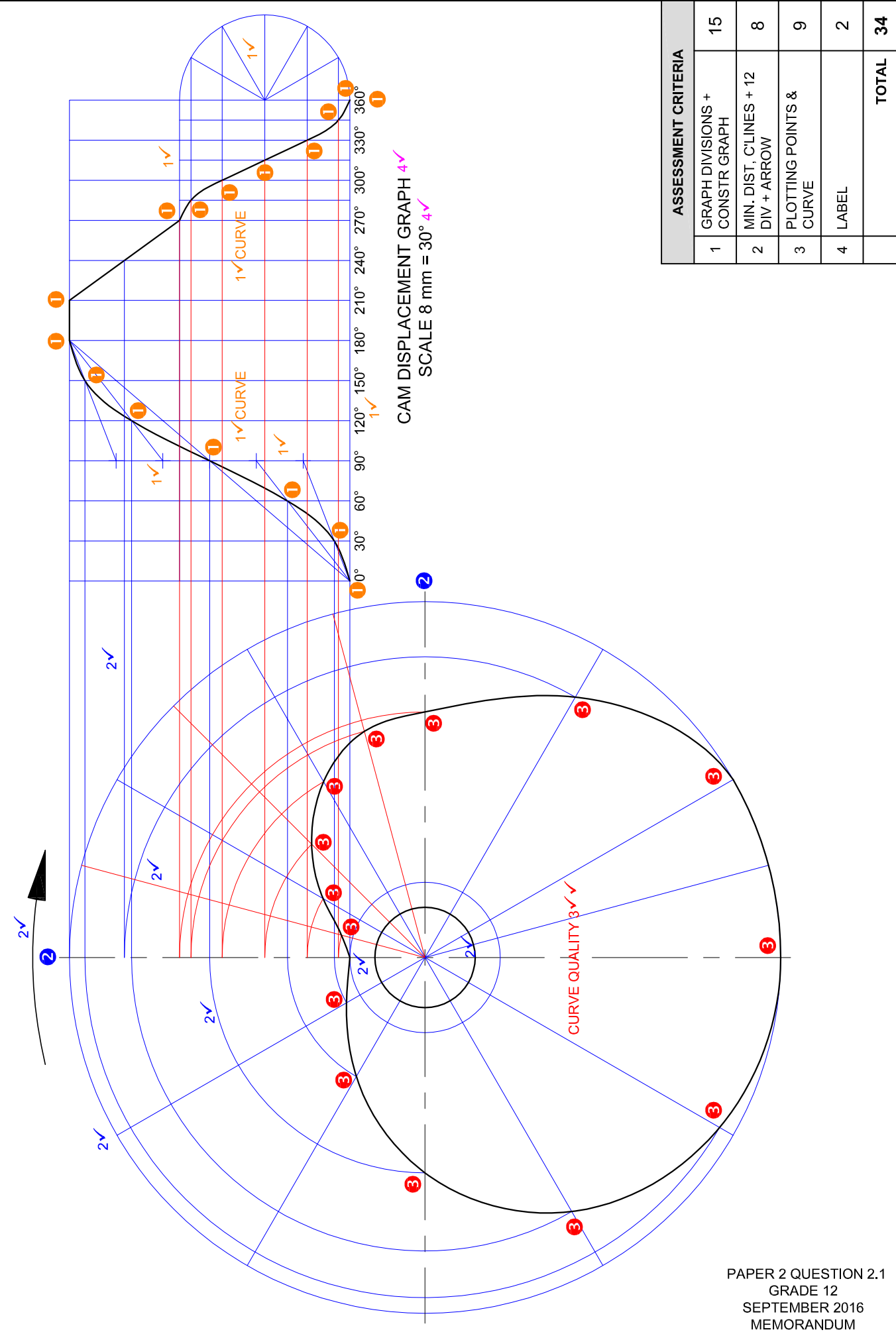
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ANSWERS

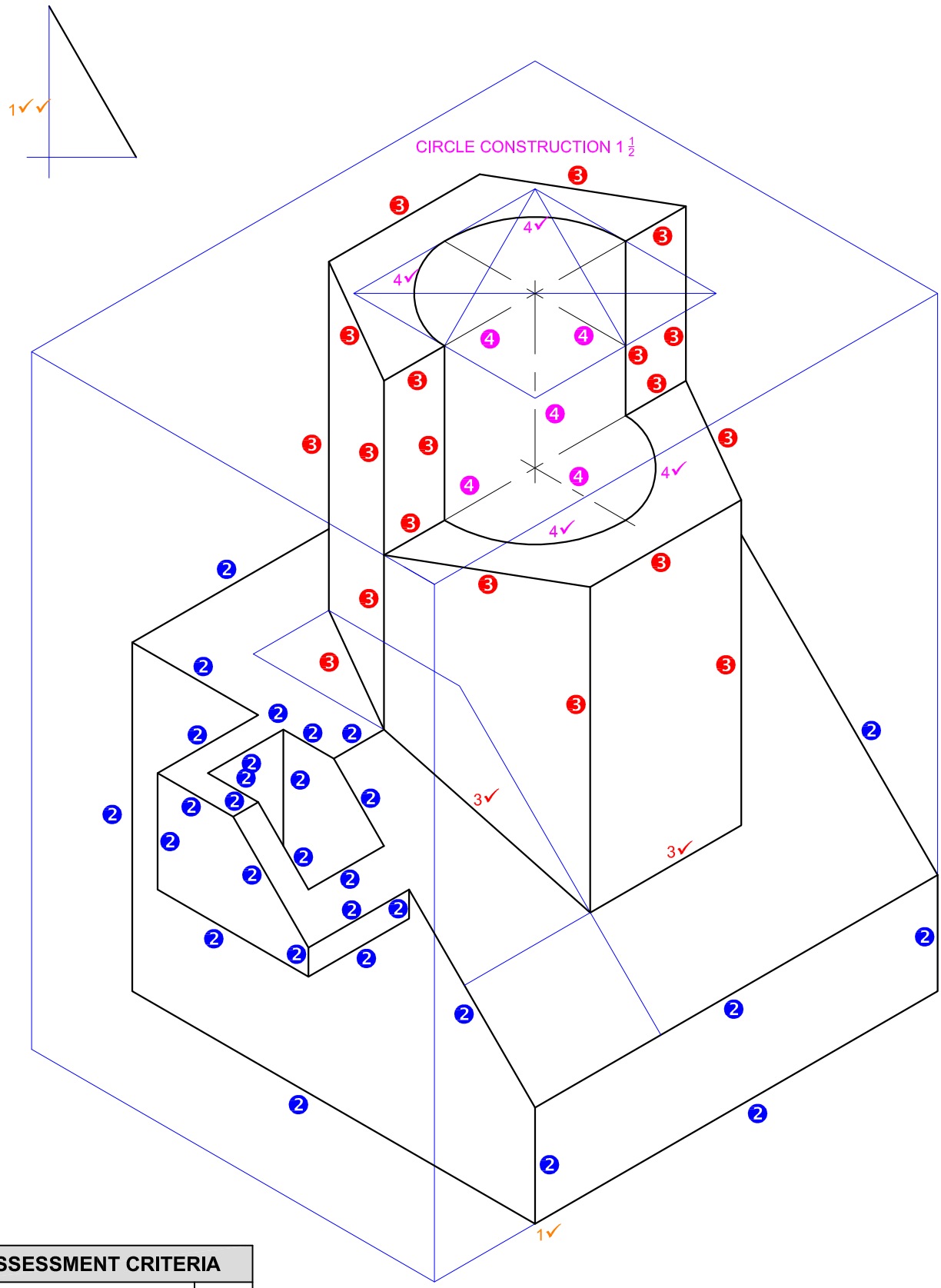
1	2015/09/12	1
2	GENERAL ENGINEERING	1
3	1 : 2	1
4	HARDEN	1
5	2015/09/15	1
6	PC3-25	1
7	TOP VIEW	1
8	4	1
9	0,25	1
10	1,2	1
11	8	1
12	ALIGNED SECTION	1
13	FILLET	1
14	THREADED HOLE OR THREAD	1
15	10 mm	2
16	CURVE OF INTERPENETRATION	2
17	PART SECTION	2
18	60°	2
19	A Ø96 B 78 C 128 D Ø13	4
20		4
	TOTAL	30

ANSWER 20

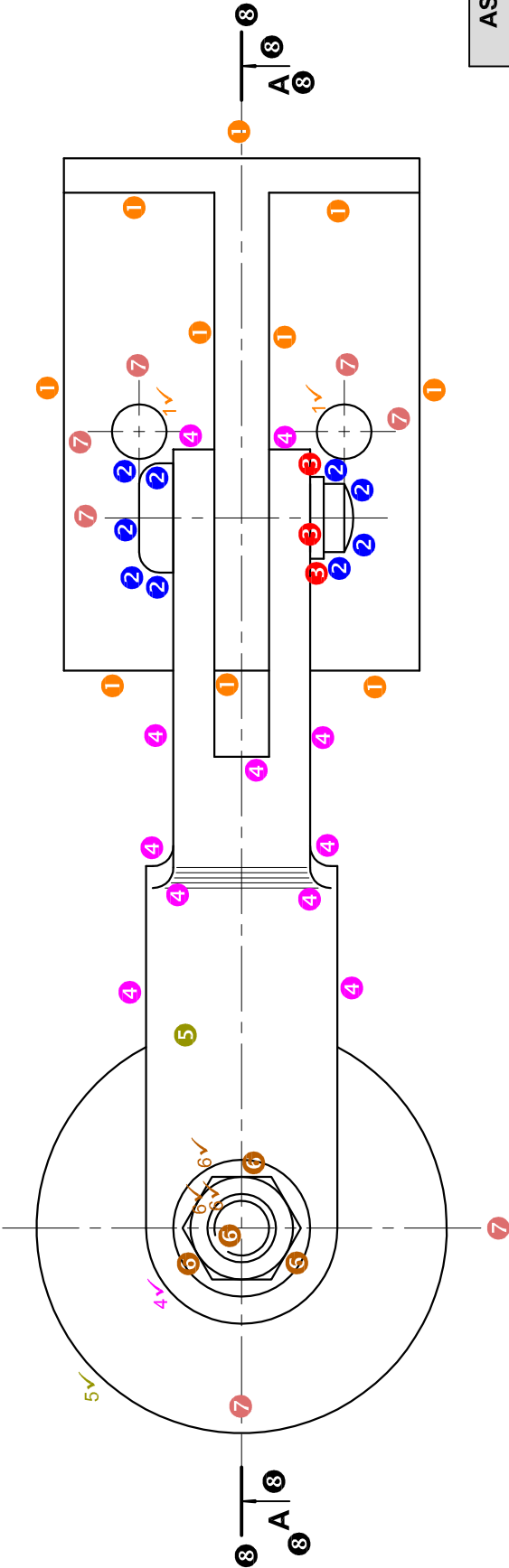




ASSESSMENT CRITERIA	
1	GRAPH DIVISIONS + CONSTR GRAPH 15
2	MIN. DIST. C'LINES + 12 DIV + ARROW 8
3	PLOTTING POINTS & CURVE 9
4	LABEL 2
TOTAL 34	



ASSESSMENT CRITERIA		
1	AUX' VIEWS + PLACING	3
2	ISO' LINES - BASE	14 ¹ / ₂
3	HEXAGONAL PRISM	11 ¹ / ₂
4	CIRCLE + CONSTR	8
TOTAL		37



ASSESSERINGS- KRITERIA		
BO-AANSIG		
1	BASIS	7
2	PEN	4½
3	BORGRING	1½
4	FURK	5½
5	KATROL	1½
6	WASSER + MOER + BOUT	5
7	SENTERLYNE	6
8	SNYVLAK	3
9	SAMESTELLING	8
SUB-TOTAAL		42

VRAESTEL 2 VRAAG 4
GRAAD 12
SEPTEMBER 2016
MEMORANDUM

PAPER 2 QUESTION 4
GRADE 12
SEPTEMBER 2016
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ASSESSMENT CRITERIA	
SECTIONAL FRONT VIEW	
1	6½
2	1½
3	19
4	2
5	10
6	WASHER + NUT + BOLT
SUB TOTAL 57	
TOTAL 99	