

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

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

ENGINEERING GRAPHICS AND DESIGN P2

NOVEMBER 2016

MEMORANDUM

MARKS: 200

TIME: 3 hours

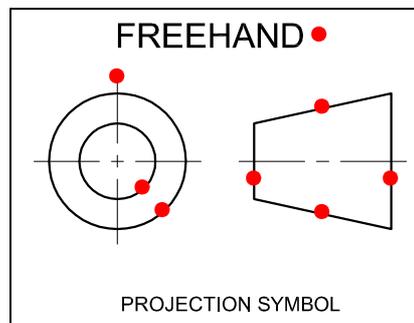
This memorandum consists of 5 pages.

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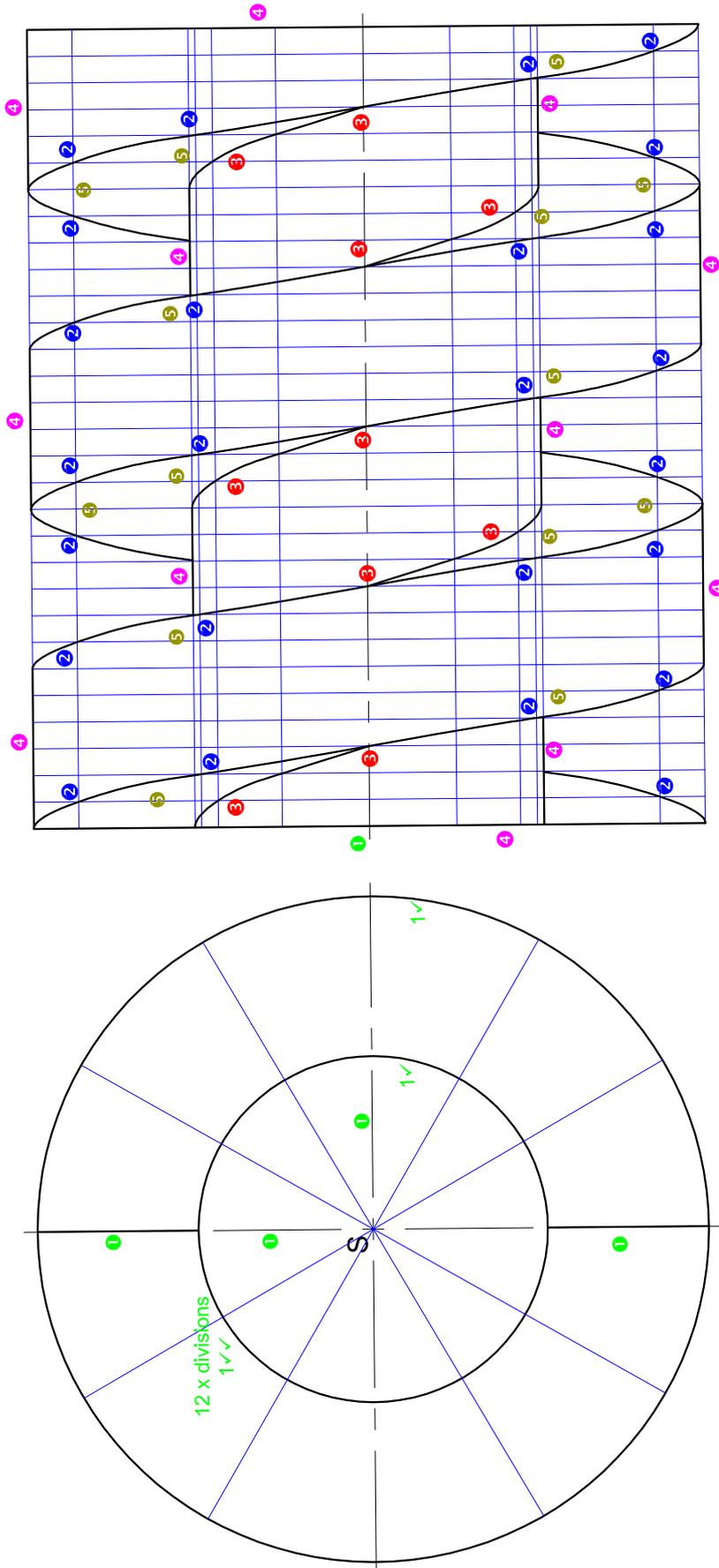
ANSWERS		
1	18/03/2016	1
2	CAST IRON	1
3	CAD	1
4	0	1
5	4	1
6	0,35	1
7	1,2 mm	1
8	CHAMPHER	1
9	Ø78	2
10	WEB/RIB	1
11	SUPPORT/STRENGTHEN	2
12	Ø16	1
13	SEMETRY	1
14	DIAMOND KNURLING	1
15	TO ROUGHEN THE SURFACE	2
16	150	2
17	REMOVED SECTION	1
18	FULL SECTIONAL VIEW	1
19	PITCH CIRCLE DIAMETER	1
20	6	1
21	SEMETRY / SAVE TIME	2
22		4
	TOTAL	30

ANSWER 22





48 mm Pitch 1✓
 Horizontal projection 1✓
 Vertical divisions 1✓

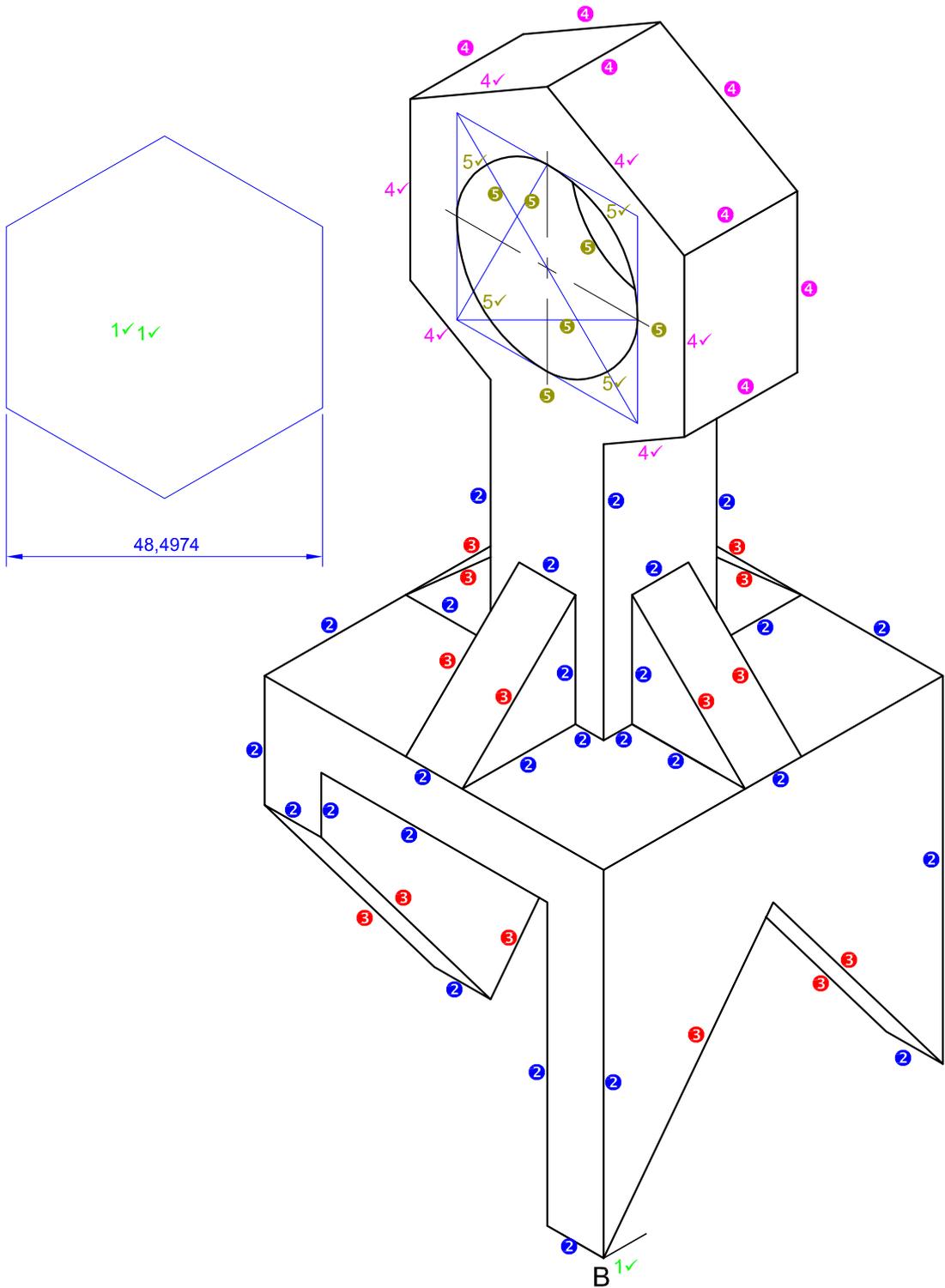


ASSESSMENT CRITERIA	
1 GIVEN + CL + CONSTR'	9½
2 OUTSIDE HELICES	12½
3 INSIDE HELICES	5
4 SHAFT	6
5 CURVE QUALITY	7
TOTAL	40

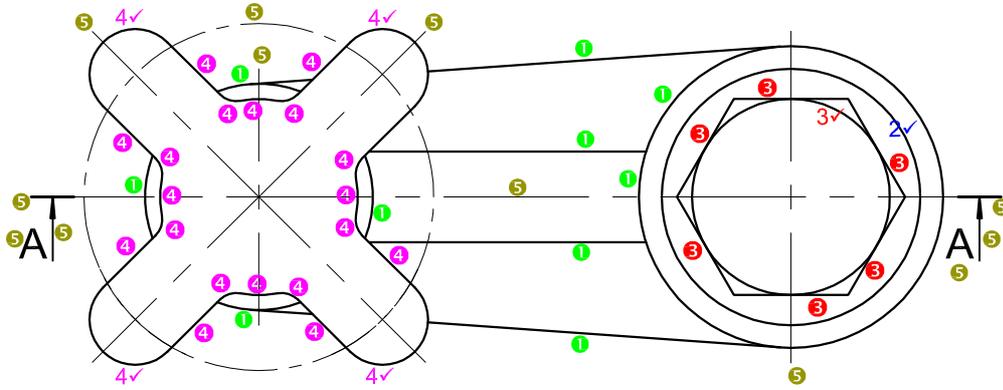
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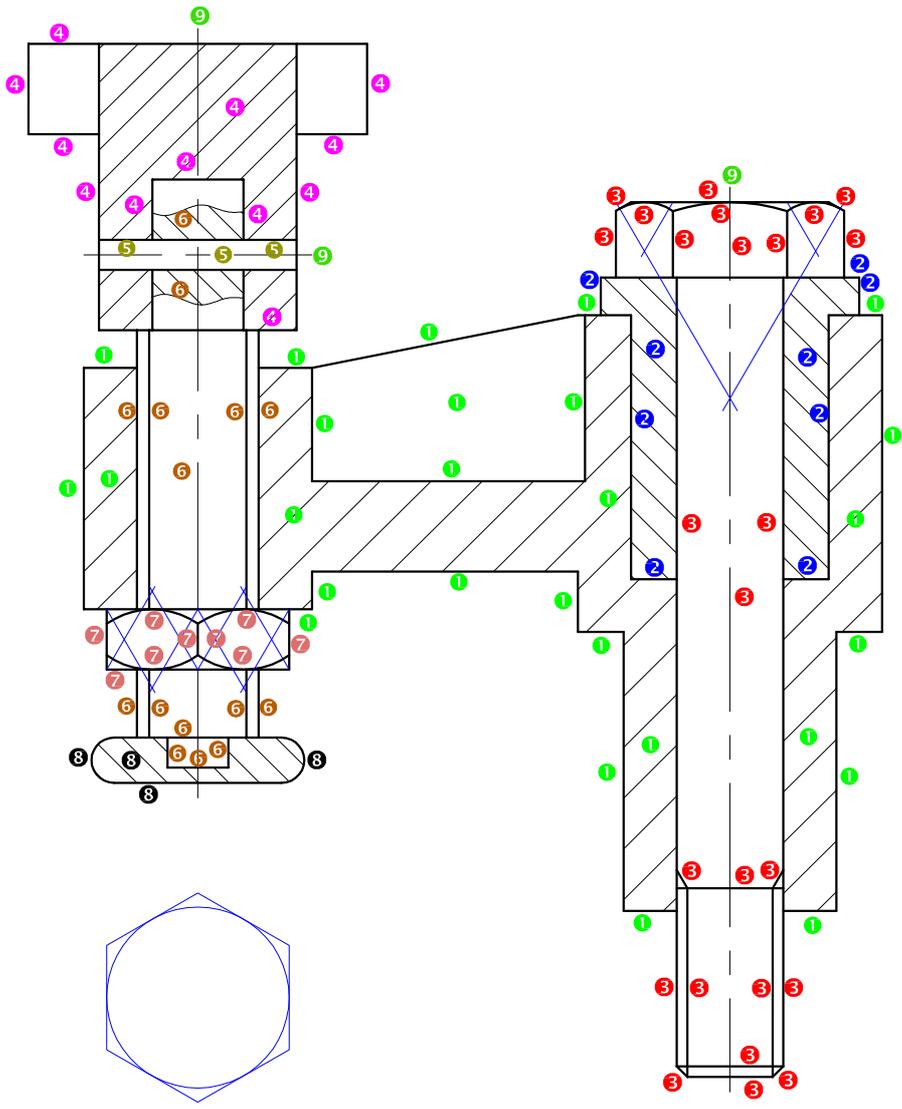
ASSESSMENT CRITERIA	
1. AUX. VIEW + PLACING	3
2. ISO' LINES	13½
3. NON ISO' LINES	7
4. HEXAGON	9½
5. ISO' CIRCLES + CL	7
TOTAL	40



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ASSESSMENT CRITERIA	
TOP VIEW	
1. SWIVEL ARM	5
2. BUSH	1
3. BOLT	4
4. HANDLE	13½
5. CENTERLINES	6
ASSEMBLY	7
SUB TOTAL	36½



ASSESSMENT CRITERIA	
SECTIONAL FRONT VIEW	
1. SWIVEL ARM	13½
2. BUSH	4½
3. BOLT	12½
4. HANDLE	6
5. CIRCLIP	1½
6. SHAFT	7½
7. M16 NUT	4½
8. BASE	2
9. CENTERLINES	1½
SUB TOTAL	52½
TOTAL	89

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