

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

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

ENGINEERING GRAPHICS AND DESIGN P2

SEPTEMBER 2014

MEMORANDUM

MARKS: 200

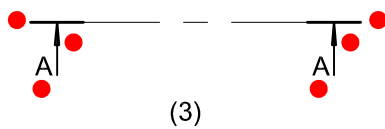
TIME: 3 hours

This memorandum consists of 6 pages.

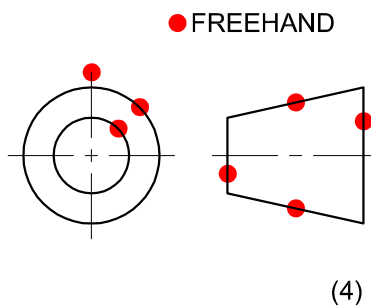
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ANSWERS		
1	15/10/13	1
2	SAFETY VALVE	1
3	CAD	1
4	1500	1
5	5	1
6	0,15	1
7	1:2	1
8	13	1
9	SCREW THREAD	1
10	FILLET	1
11	SECTIONING/HATCHING	1
12	R4 x 5 mm	1
13	RUBBER	1
14	FULL SECTION	1
15	A) 120° ✓ B) 64 ✓ C) 230 ✓✓	4
16	PITCH CIRCLE DIAMETER	1
17	3	1
18		3
19		4
20		3
	TOTAL	30

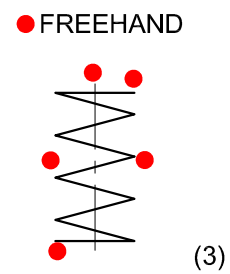
ANSWER 18



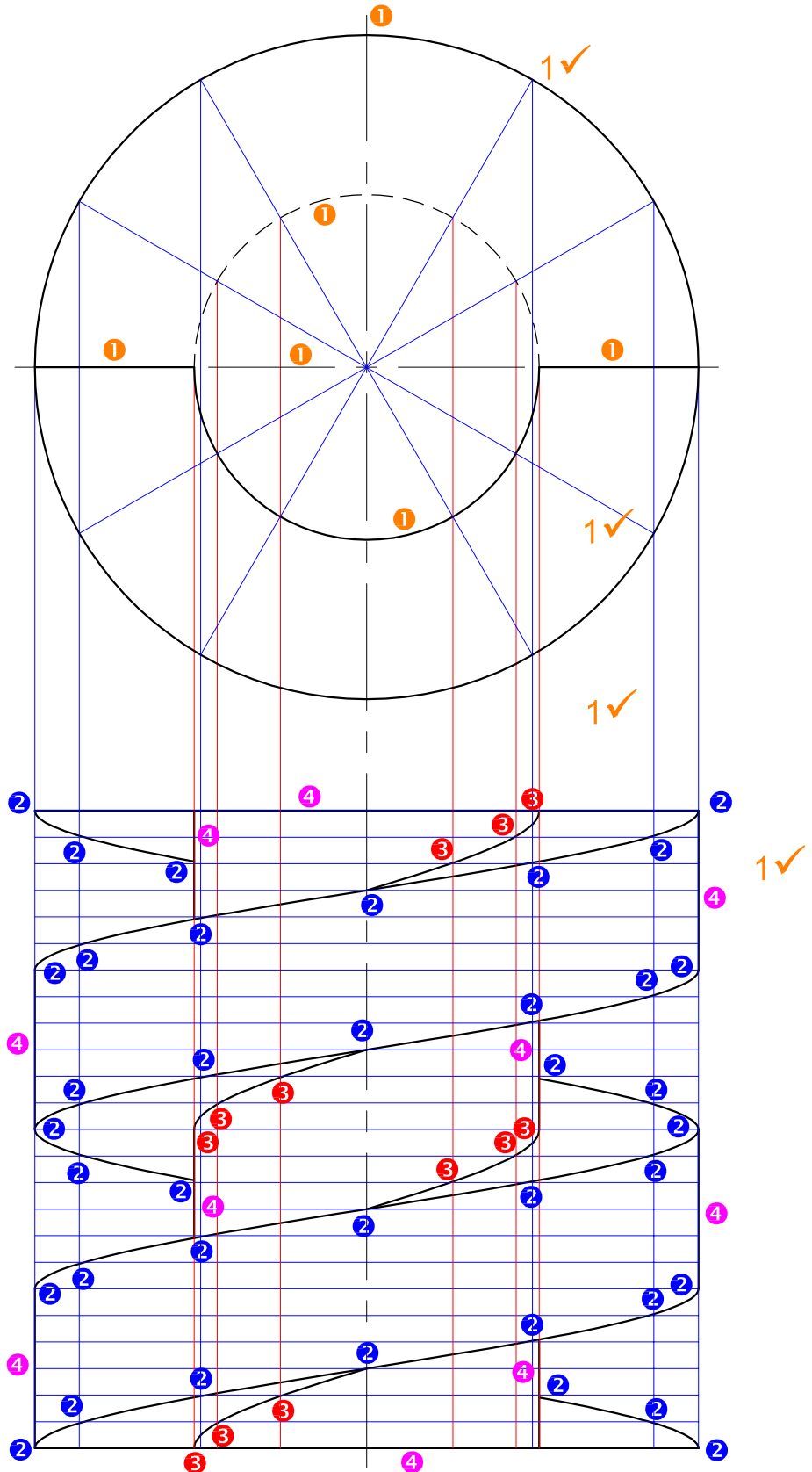
ANSWER 19



ANSWER 20

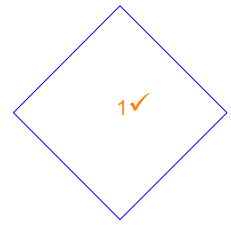
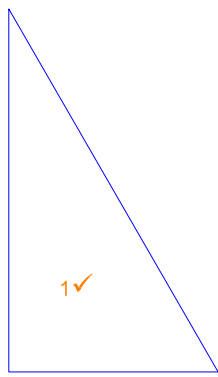
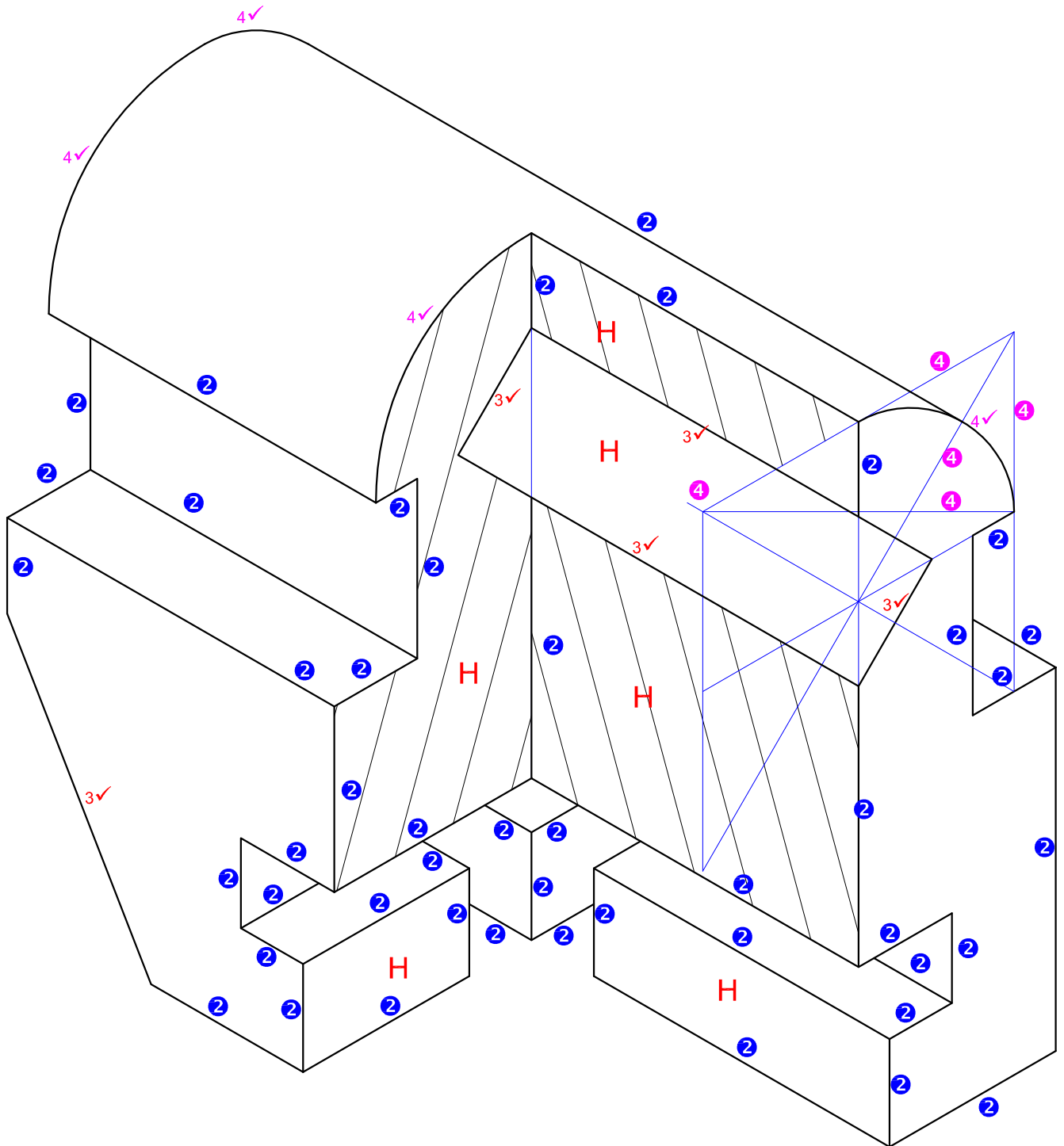


PAPER 2 QUESTION 1
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ASSESSMENT CRITERIA		
1	TOP VIEW + C'LINES + DIVISIONS + CONSTR PITCH	7
2	PLOTTING POINTS & OUTSIDE CURVE	19
3	PLOTTING POINTS & INSIDE CURVE	6
4	SHAFT + SIDES	5
TOTAL		37

PAPER 2 QUESTION 2
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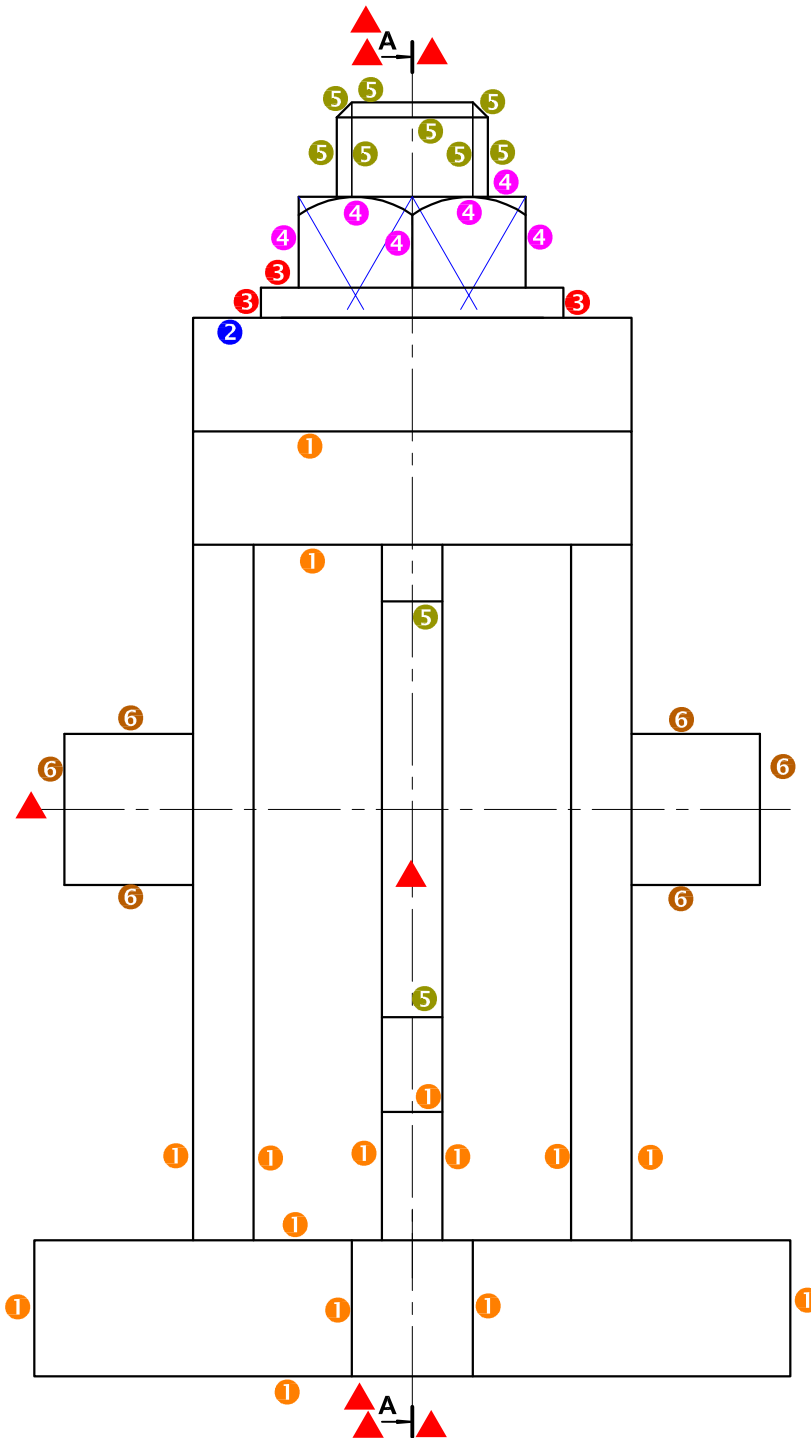


ASSESSMENT CRITERIA		
1	AUX' VIEWS + PLACING	3
2	ISO' LINES	23½
3	NON ISO' LINES	5
4	CIRCLE + CONSTR	6½
H	SECTIONING	3
TOTAL		41

PAPER 2 QUESTION 3
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ASSESSMENT CRITERIA		
SECTIONAL FRONT VIEW		
1	BASE	15½
2	SLIDING BLOCK	8½
3	NUT	5
4	COVER	5
5	WASHER	1½
6	NUT	5
7	BUSH	1
8	SHAFT	1
H	HATCHING	16
SUBTOTAL		58½

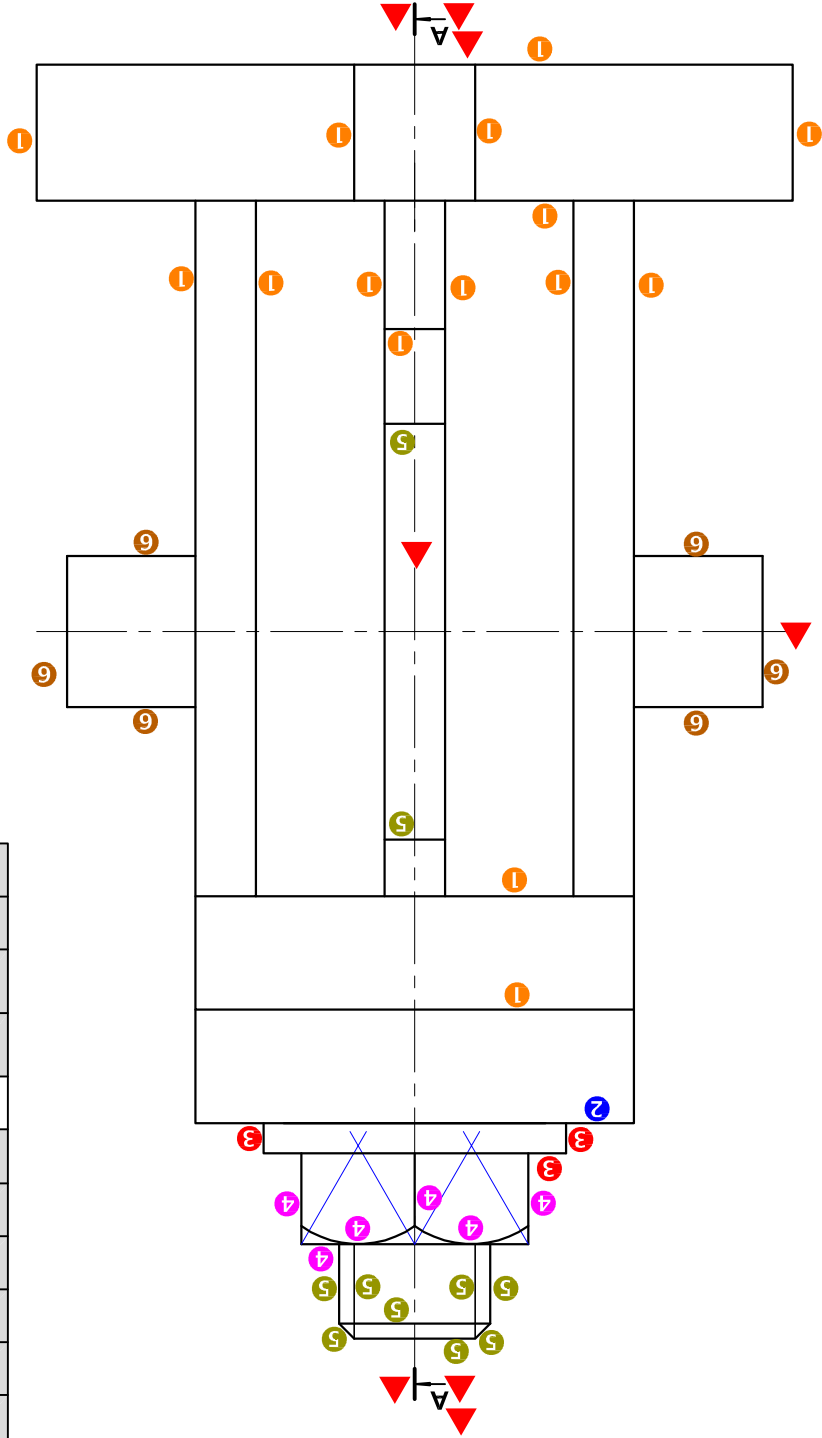
PAPER 2 QUESTION 4
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ASSESSMENT CRITERIA		
RIGHT VIEW		
1	BASE	7½
2	COVER	½
3	WASHER	1½
4	NUT	3
5	SLIDING BLOCK	5
6	SHAFT	3
SUBTOTAL		20½
GENERAL		
1	C' LINES(6) + AA	6
2	ASSEMBLY	7
SUBTOTAL		13
TOTAL		92

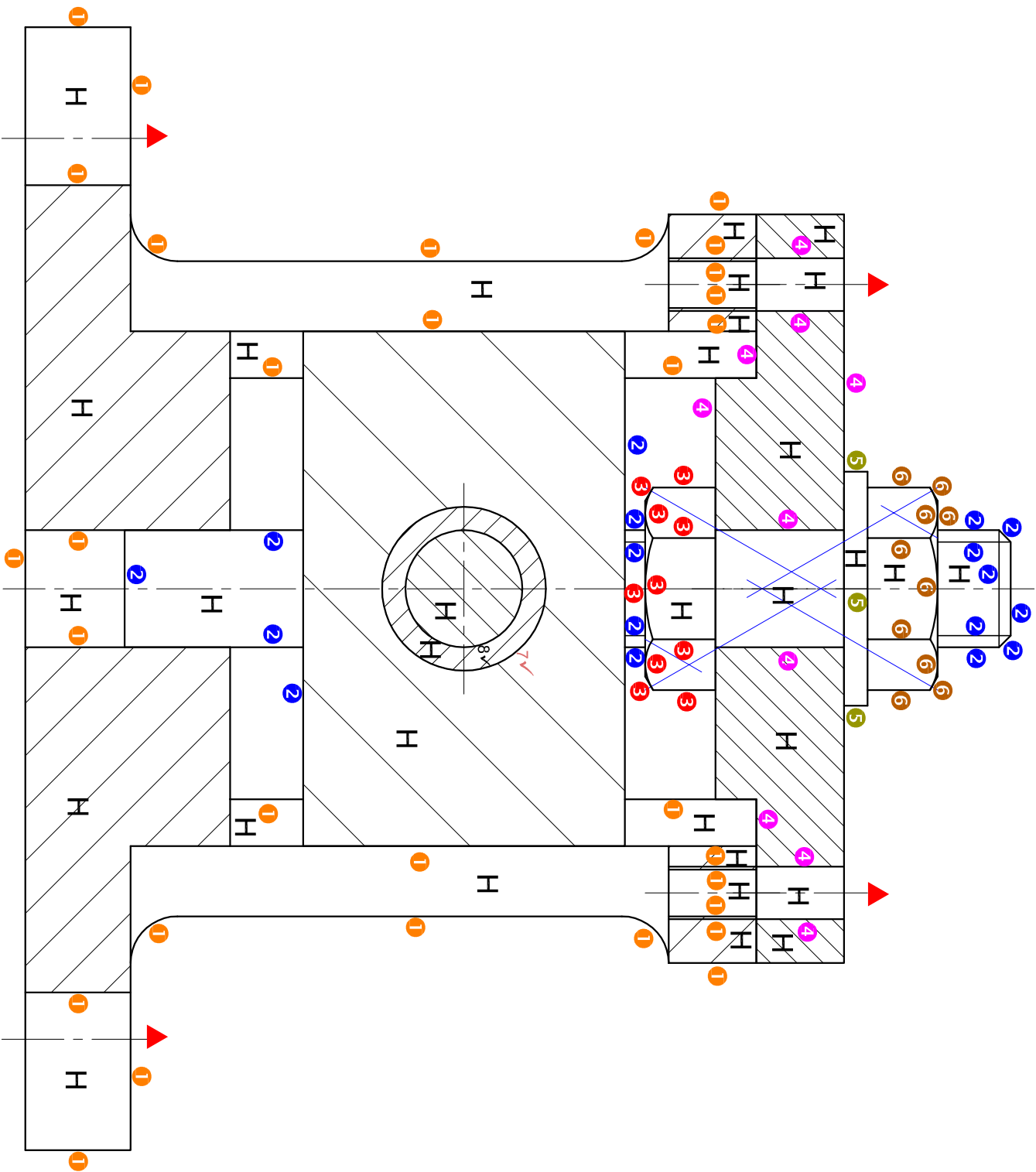
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VRAESTEL 2 VRAAG 4
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ASSESSINGS- KRITERIA		REGTERANSIG	
1	BASIS	7½	1
2	DEKSEL	7	2
3	WASTER	1½	3
4	MOER	3	4
5	GLYBLOK	5	5
6	AS	3	6
SUBTOTAL		20½	
ALGEMEEN			
1	S.LYNE(6) + AA	6	1
2	SAMESTELLING	7	2
SUBTOTAL		13	
TOTAL		92	

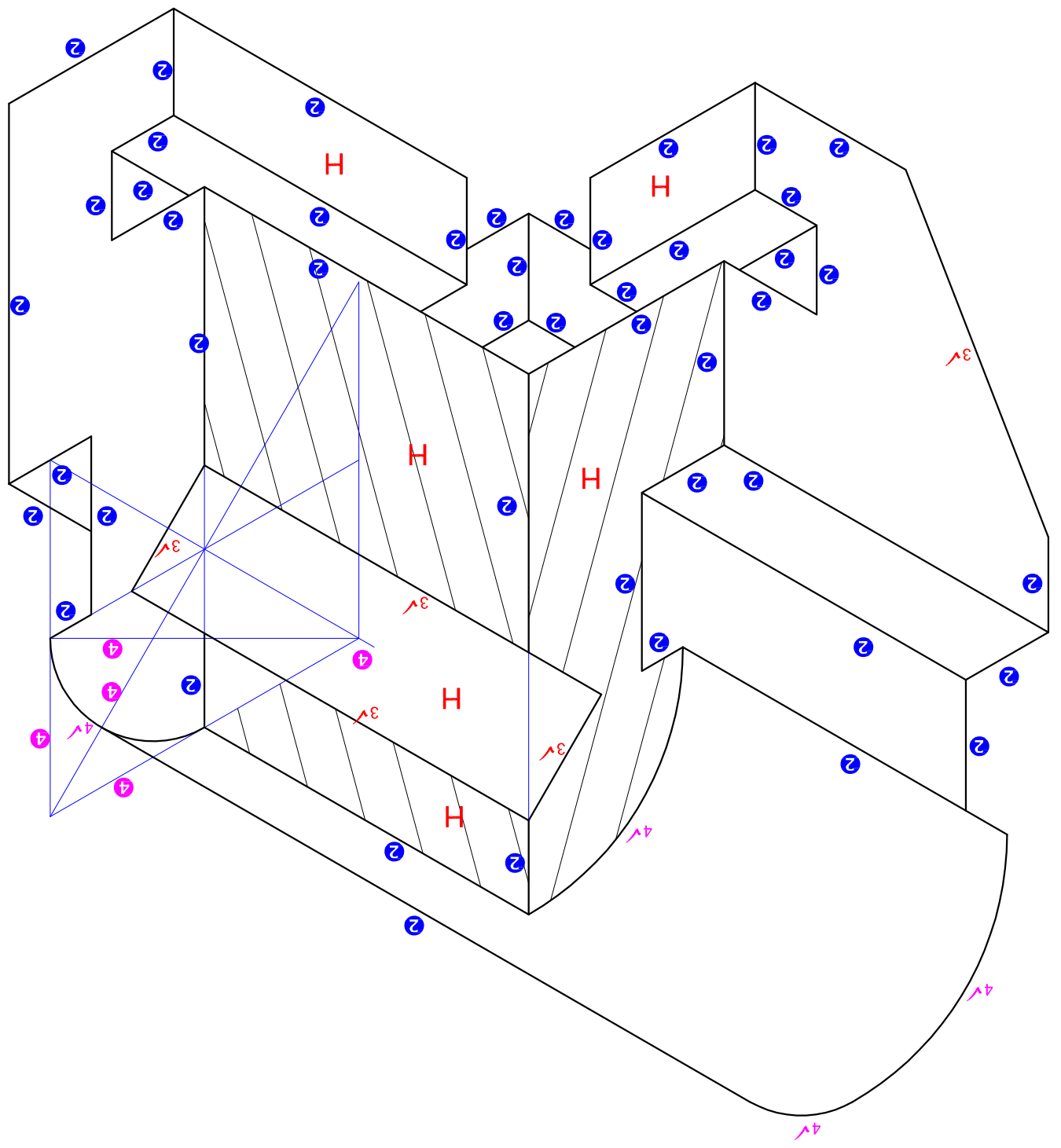
VRAESTEL 2 VRAAG 4
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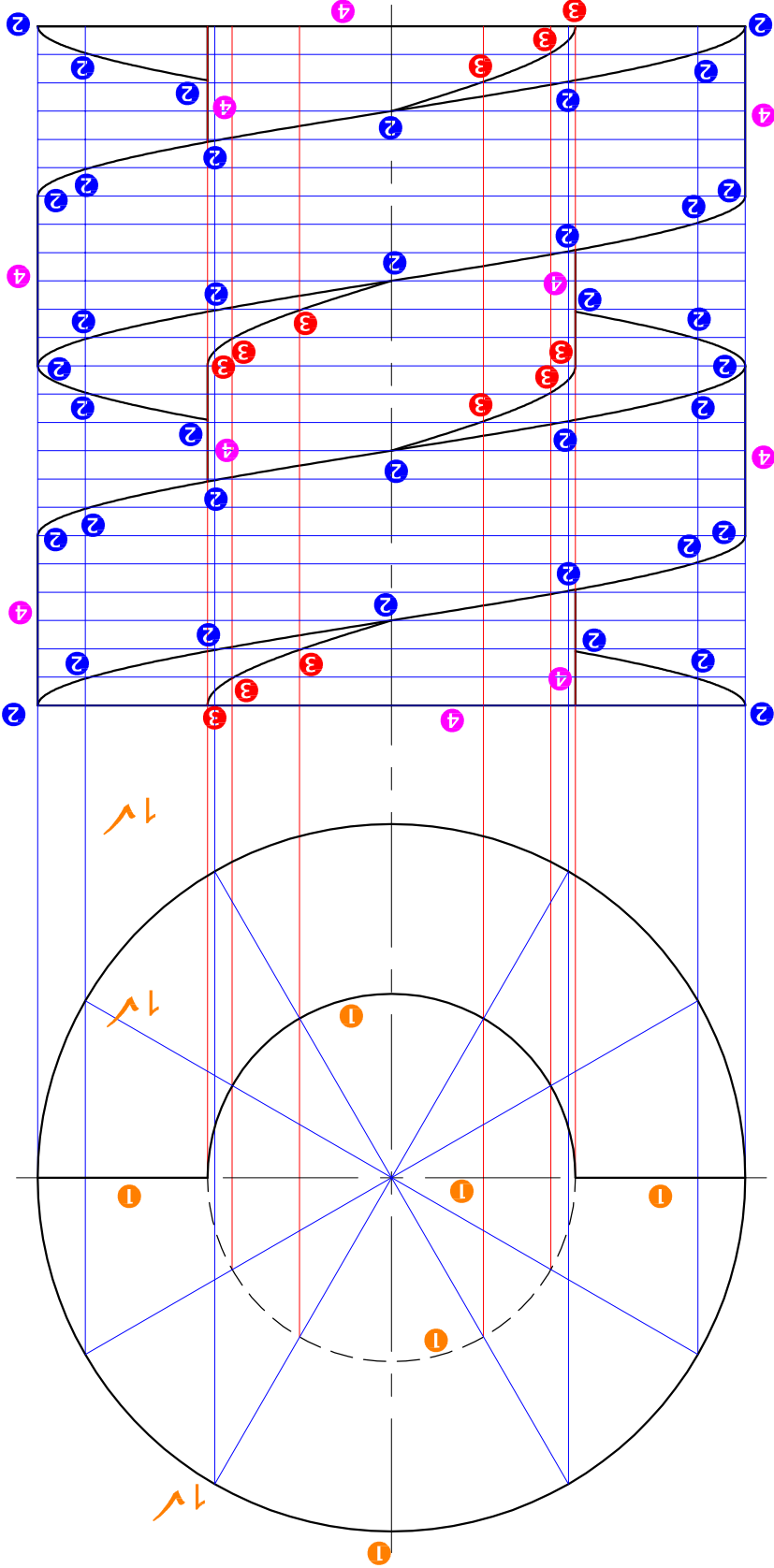
ASSESSERINGS- KRITERIA		
SNITVOORAANSIG		
1	BASIS	15½
2	GLYBLOK	8½
3	MOER	5
4	DEKSEL	5
5	WASTER	1½
6	MOER	5
7	BUS	1
8	AS	1
H ARSERING		16
SUBTOTAAL		58½

ASSESSERINGSKRITERIA	
1	HULPANSIGTE + PLASING
3	
2	ISO'LYNE
23½	
3	NIE ISO'LYNE
5	
4	SIRKEL + KONSTR
6½	
3	H ARSERING
TOTAAL	
41	

VRAESTEL 2 VRAAG 3
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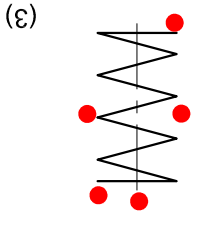


ASSESSERINGSKRITERIA		
1	BOAANSIG + SLYNE + VERDELING + KONSTR	7
2	UTSTIPPING & BUITE KURWE	19
3	UTSTIPPING & BINNE KURWE	6
4	SKAG + KANTE	5
TOTAAL		37



VRAESTEL 2 VRAAG 2
 GRAAD 12
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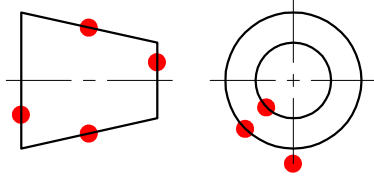
VRAESTEL 2 VRAAG 1
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(3)

• VRYHAND

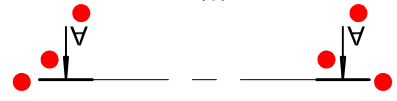
ANTWOORD 20



(4)

• VRYHAND

ANTWOORD 19



(3)

ANTWOORD 18

ANTWOORDE	
1	15/10/13
2	VEILIGHEIDSRREGULEERDER
3	ROT/CAD
4	1500
5	5
6	0,15
7	1:2
8	13
9	SKROEFDRAAD
10	RONDING / FILLET
11	ARSERING
12	R4 x 5 mm
13	RUBBER
14	VOLSNIIT
15	A) 120° ✓ B) 64 ✓ C) 230 ✓ ✓
16	STEEKSIRKELDIAETER
17	3
18	3
19	4
20	3
TOTAAL 30	

Kopiereg voorbehou

Die memorandum bestaan uit 6 bladsye.

TYD: 3 uur

PUNTE: 200

INGENIEURSGRAFIKA EN -ONTWERP V2
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GRAAD 12

NASIONALE
SENIOR SERTIFIKAT

ISEBE LEMFUNDO LEMPUMA KOLONI
EASTERN CAPE EDUCATION DEPARTMENT
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