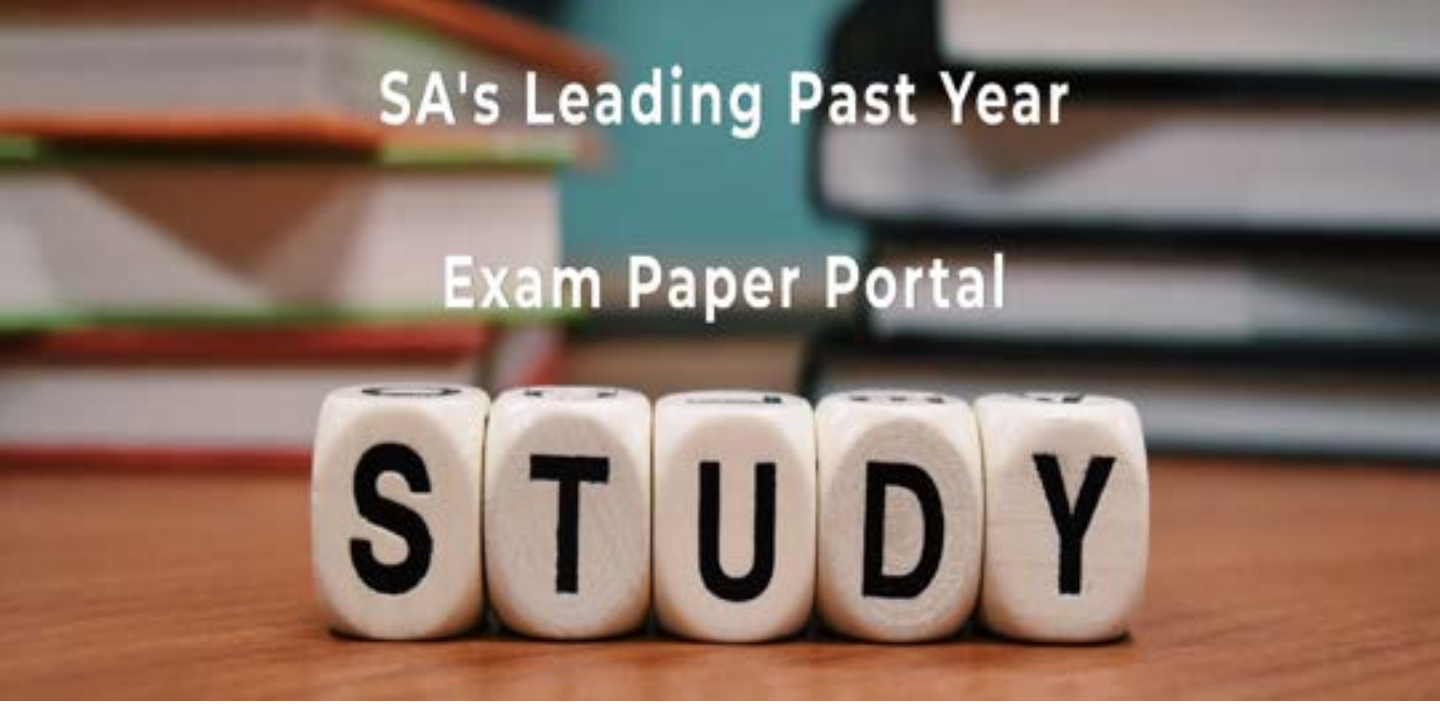

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NASIONALE SENIOR SERTIFIKAAT

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

NOVEMBER 2012

MEMORANDUM

PUNTE: 100

Hierdie memorandum bestaan uit 7 bladsye.

Kopiereg voorbehou

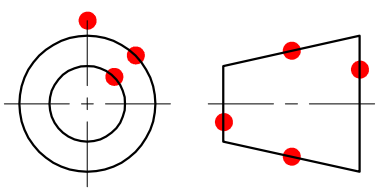
ANTWOORDE

1	J BURGER	½
2	mm	½
3	2012-07-18	½
4	S GOBA	½
5	CAD/ROT	½
6	382	½
7	4	1
8	0,03	1
9	SLYP	1
10	105°/75°	1
11	44°	1
12	6	1
13	TEENBORING	1
14	VOORAANSIG	1
15	R6	1
16	A. 19 ± 0,05 B. 22 C. Ø30 D. 60 E. 24	5
17	253	3
18	19,05	2
19	187,35 (BO) & 186,55 (ONDER)	4
20		4

TOTAAL: 30

ANTWOORD 20

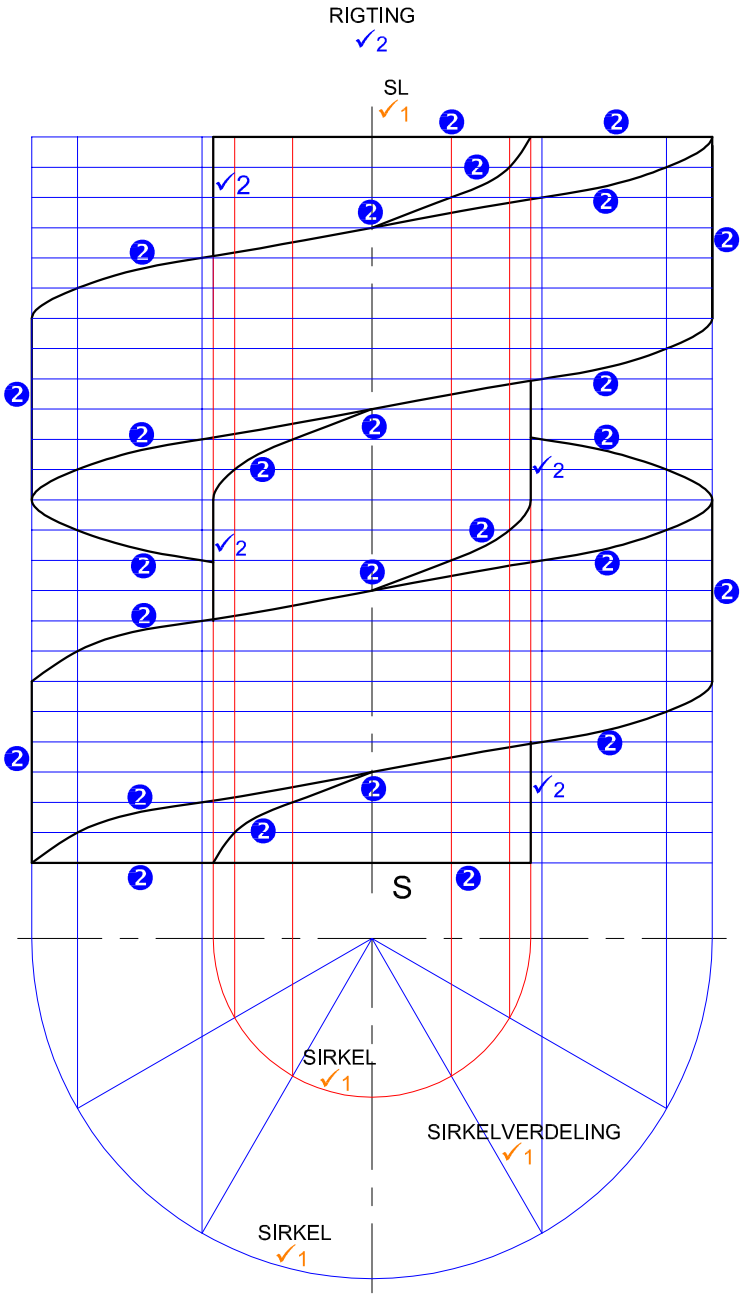
● VRYHAND



SIMBOOL

VRAESTEL 2 VRAAG 1
GRAAD 12
NOVEMBER 2012
MEMORANDUM

Kopiereg voorbehou



ASSESSERINGSKRITERIA		
1	SENTERLYNE + KONSTR	6
2	HELIKSE + SKAG + RIGTING	18
SUBTOTAAL		**24**

VRAESTEL 2 VRAAG 2.1
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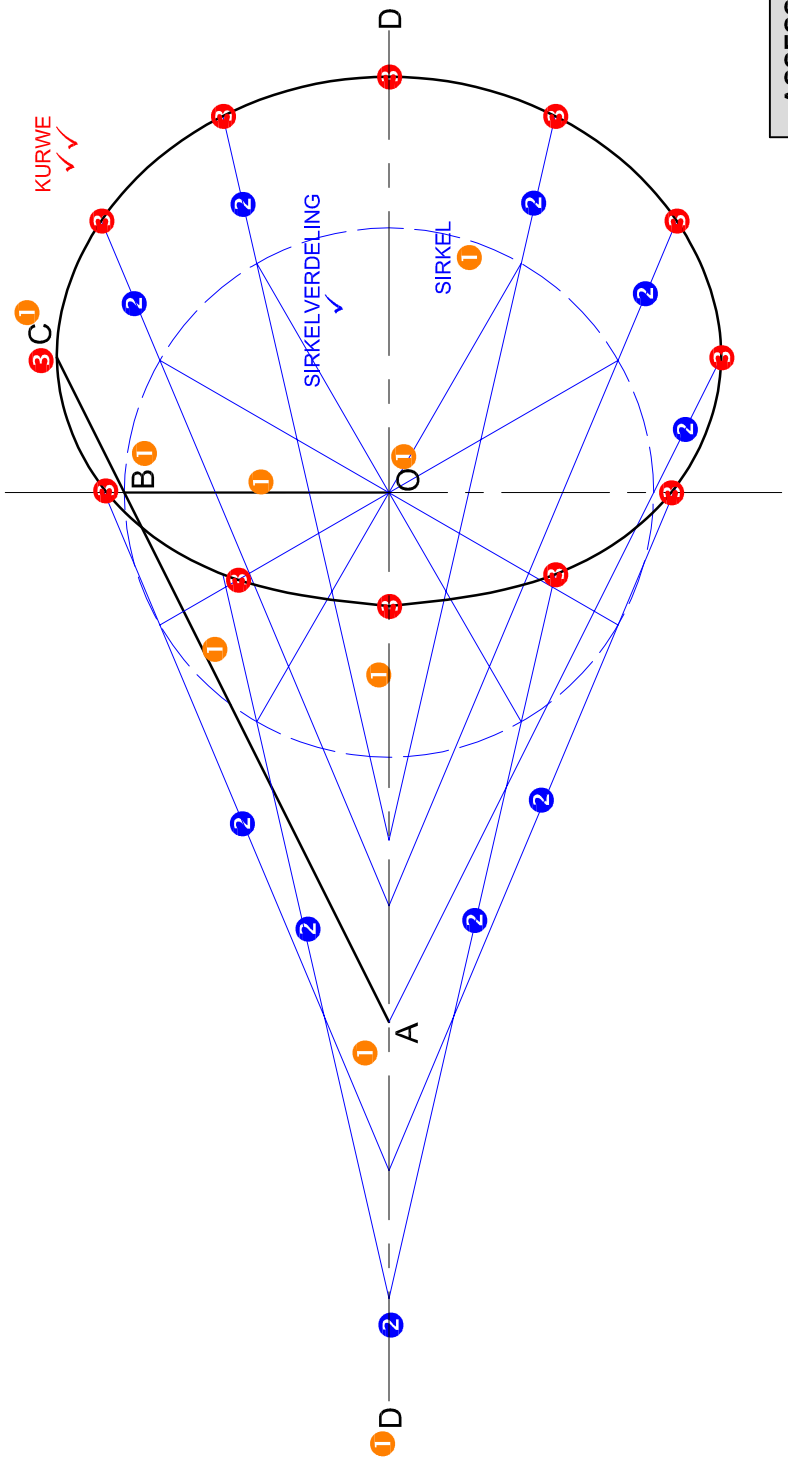
ASSESSERINGSKRITERIA		
1	GEGEE	4
2	KONSTRUKSIE	6
3	LOKUS + KURWE	8
	SUBTOTAAL	**18**
	TOTAAL	**42**



VRAESTEL 2 VRAAG 2.2
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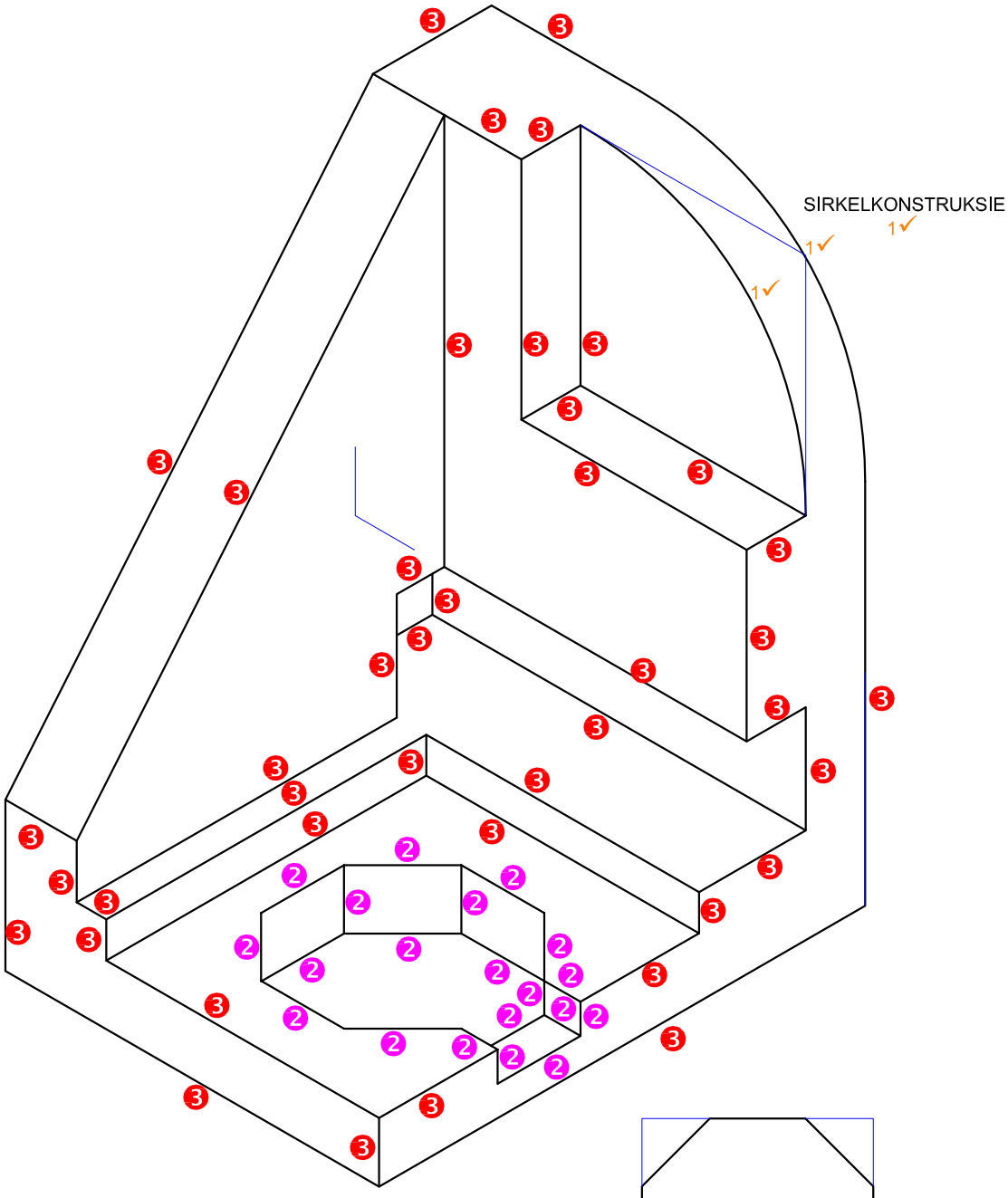
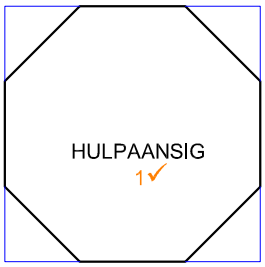
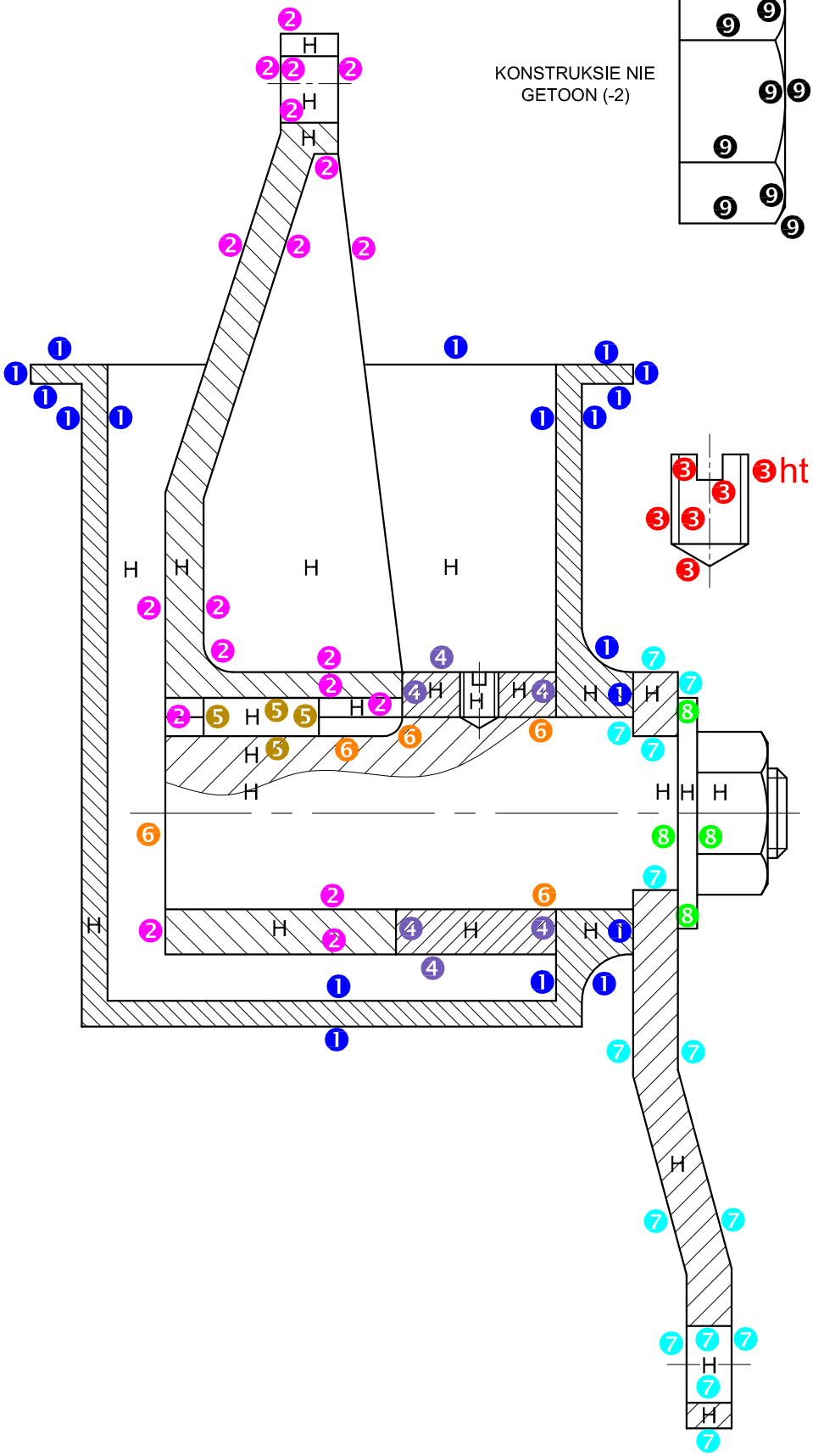




ASSESSERINGSKRITERIA		
1	HULPAANSIGTE + SIRKEL + KONSTRUKSIES + PLASING	5
2	AGTKANTIGE GAT	10
3	ISO'- + NIE-ISO'-LYNE	21
TOTAAL		**36**

VRAESTEL 2 VRAAG 3
GRAAD 12
NOVEMBER 2012
MEMORANDUM

KONSTRUKSIE NIE GETOON (-2)



DEURSNEE-VOORAANSIG		
1	HULSEL	9
2	ONTKOPPELARM	9½
3	SKROEFTAP	3
4	SPASIEERDER	3
5	SPY	2
6	AS	6½
7	HEFBOOM	7
8	WASTER	2
9	M14-MOER	5
H	ARSERING	13
SUBTOTAAL		60

VRAESTEL 2 VRAAG 4
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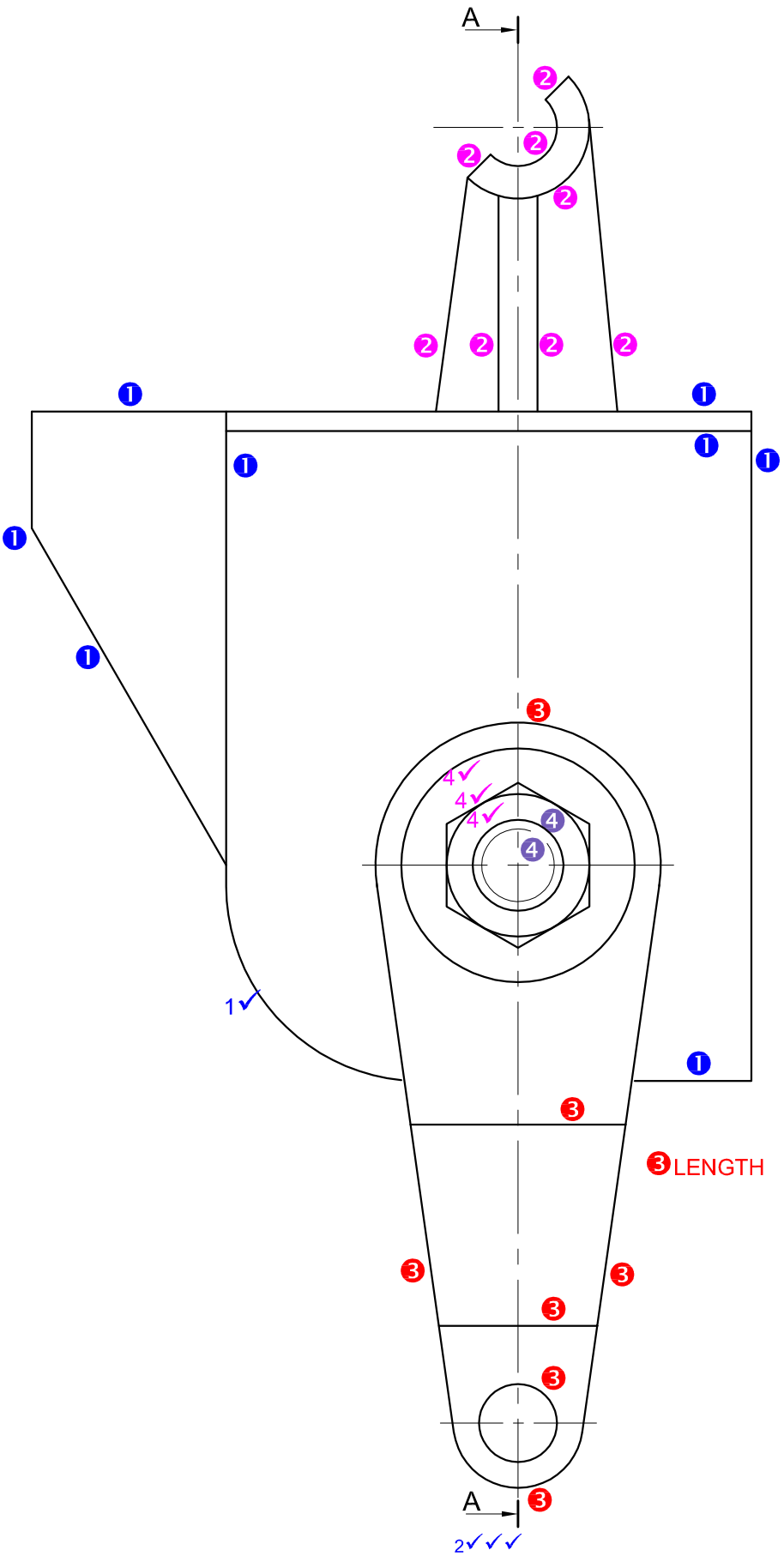
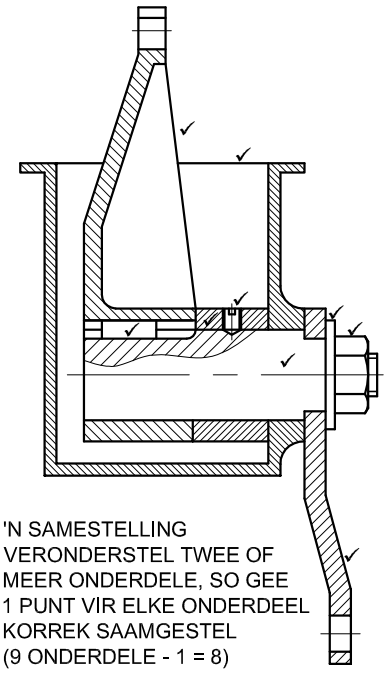
REGTERAANSIG		
1	HULSEL	5
2	ONTKOPPELARM	4
3	HEFBOOM	4
4	WASTER + M14-MOER	4
SUBTOTAAL		17
ALGEMEEN		
1	SENTERLYNE	4
2	SNYVLAK	3
3	SAMESTELLING	8
SUBTOTAAL		15





'N SAMESTELLING VERONDERSTEL TWEE OF MEER ONDERDELE, SO GEE 1 PUNT VIR ELKE ONDERDEEL KORREK SAAMGESTEL (9 ONDERDELE - 1 = 8)

VRAESTEL 2 VRAAG 4
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Kopiereg voorbehou