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basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NASIONALE
SENIOR CERTIFIKAAT**

GRAAD 12

INGENIEURSGRAFIKA EN -ONTWERP V2

NOVEMBER 2025

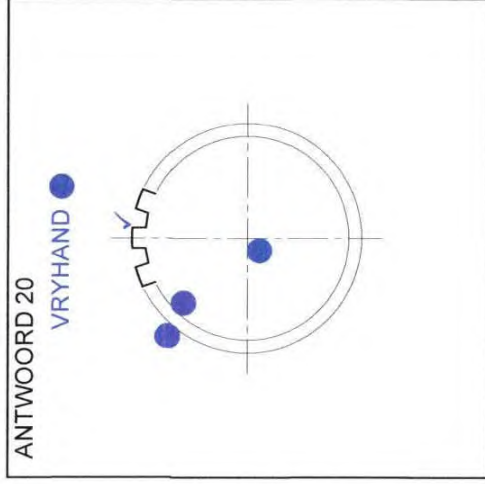
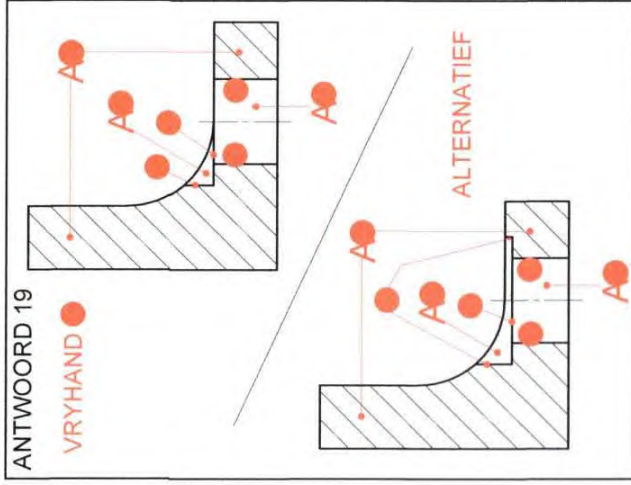
NASIENRIGLYNE

PUNTE: 100

Hierdie nasienriglyne bestaan uit 7 bladsye.

ANTWOORDE

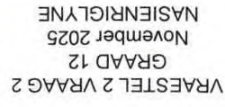
1	JJ-14213	1
2	THOMAS	1
3	DOELGEMAAKTE HOUERS	1
4	AUTOCAD 2024	1
5	www.protek.co.za	1
6	DERDEHOEKSE ORTOGRAFIESE PROJEKSIE	1
7	150	1
8	REGTERAANSIG	1
9	GEDEELTELIKE	1
10	GEWENTELDE	1
11	OORKANTS	1
12	3	1
13	6°	1
14	F: 28 G: M10 H: 31 J: M6	4
15	MAX - 14.35 MIN - 13.75	1
16	24	1
17	GEEN MASJINERING	1
18	b: PRODUKSIEMETODE / BEHANDELING / DEKLAAG ("COATING") / AFWERKING d: RIGTING VAN AFWERKING	1
19	Sien hieronder	4
20		3
TOTAAL		30



VRAESTEL 2 VRAAG 1
GRAAD 12
November 2025
NASIENRIGLYNE

The graph shows a linear relationship between 'CURVE-QUALITEIT' and 'E-TEIL'. The y-axis is labeled 'CURVE-QUALITEIT' and ranges from 0 to 360°. The x-axis is labeled 'E-TEIL' and ranges from 0 to 3. A single data point is plotted at (3, 360°).

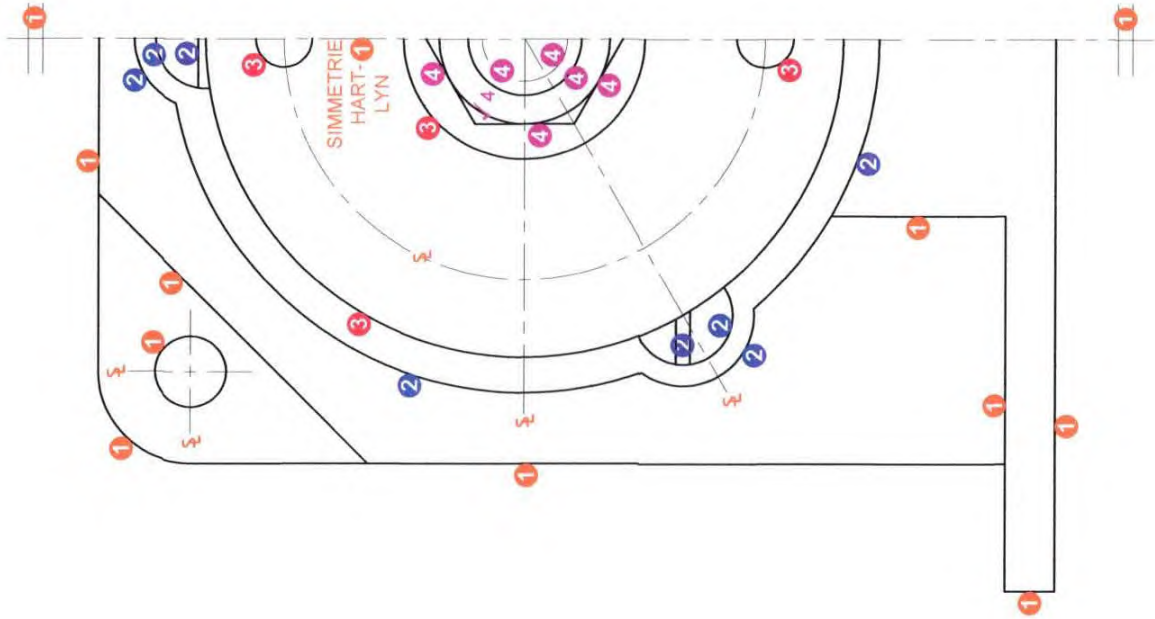




VRAESTEL 2 VRAAG 3
GRAAD 12
November 2025
NASIENRIGLYNE

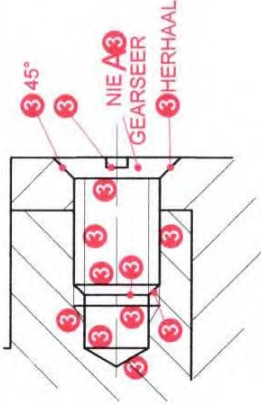
ASSESSERINGSKRITERIA		
1	PLASING + HULPANSIG	2
2	VOORSTE GEDEELTE	14 $\frac{1}{2}$
3	AGTERSTE GEDEELTE	14 $\frac{1}{2}$
4	SIRKELS + KONSTR. + SL	8
TOTAAL		39

The drawing shows a complex geometric object, possibly a mechanical part, with various surfaces and edges. Red circles with the number '3' are placed on several surfaces, indicating a specific marking or measurement. Blue circles with the number '2' are placed on other surfaces. A large circle is drawn on the left side, with a dashed line passing through its center. The text 'SIRKELKONSTRUKSIE ✓ 4' is written in pink, indicating a specific construction step. The text 'BEGIN 1 / ORIENTERING 1' is written in orange, indicating the starting point or orientation of the drawing. The letter 'P' is placed near the top right corner of the object.

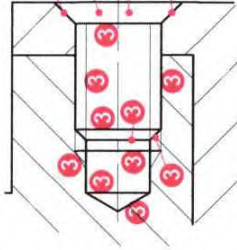


ASSESSERINGSKRITERIA			
REGTERAANSIG			
1	HULSEL + SIMMETRIE	6	
2	DOP + SKOEWE	4	
3	FLENSKOPPELING	2	
4	M16-MOER + AS	4	
SUBTOTAAL			16

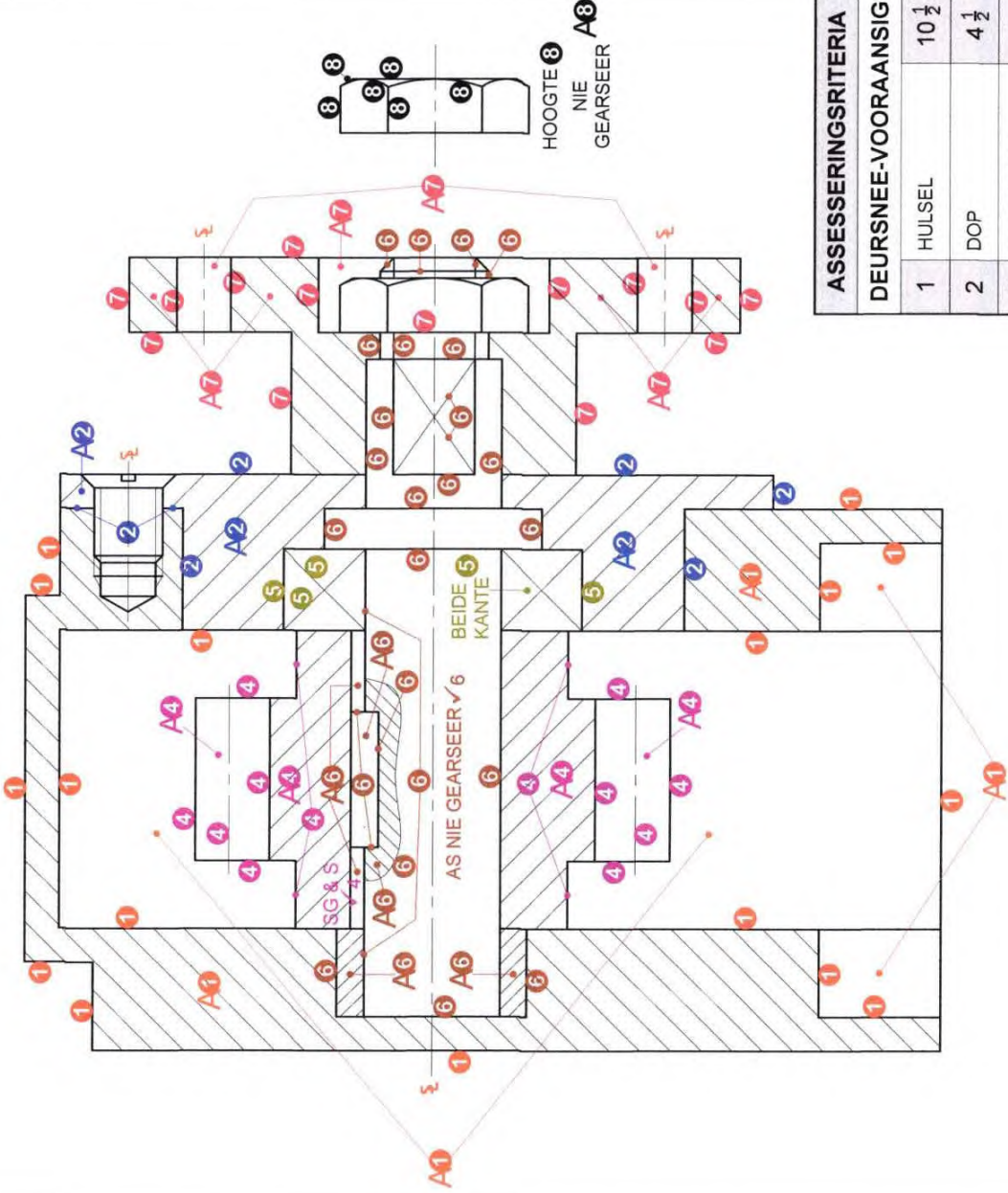
VRAESTEL 2 VRAAG 4
GRAAD 12
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VERGROTE M10-SKROEF
PUNTTEKENING



ALTERNATIEVE VERGROTE
M10-SKROEF
PUNTTEKENING



2. SAMESTELLING
1 PUNT VIR ELKE ONDERDEEL KORREK SAAMGESTEL
(10 ONDERDELE - 1) = 9

ASSESSERINGSKRITERIA	
DEURSNEE-VOORAANSIG	
1	HULSEL 10 ½
2	DOP 4 ½
3	M10-SKROEF 7
4	REGUITTANDRAT 9
5	KOEËLLAER 2 ½
6	AS + SPY + BUS 15 ½
7	FLENSKOPPELING 9
8	M16-MOER 4
SUBTOTAAL 62	

VRAESTEL 2 VRAAG 4
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