



## **education**

**Department:**  
**Education**  
**Kwazulu - Natal**

**GRADE 12**

# **MARKING MEMO**

**ENGINEERING GRAPHICS AND DESIGN P2**  
**TRIAL EXAMINATION - 2010**

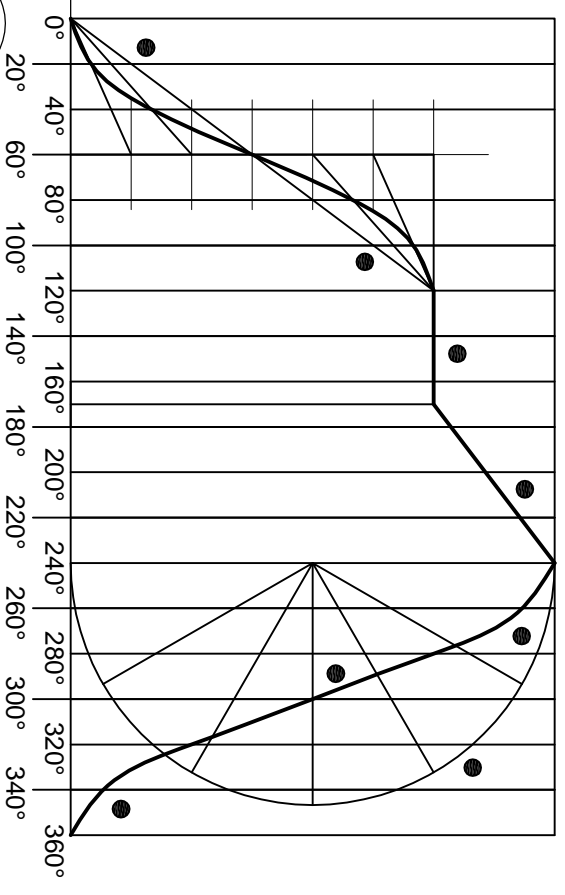
**EXAMINERS** V. GOUNDEN (WHSS) / P. MOODLEY (PTSS)  
**MODERATOR** R. MOHUNLAL (SSS)  
**AFRIKAANS** VAN VUUREN (WHS)

## STUDY THE INFORMATION GIVEN, THEN ANSWER THE QUESTIONS BELOW:

1.1. What is the dimension A?	139
1.2. What is the dimension B?	40
1.3. What is the dimension C?	20
1.4. What is the dimension D?	R 10
1.5. How many parts make up this assembly?	3
1.6. What is the tolerance on all dimensions?	0,04
1.7. Describe the machining lay?	CROSSED
1.8. How many surfaces require machining?	4
1.9. Where is this company situated?	HARINAGAR
1.10. Identify PART E?	SHAFT
1.11. Identify PART F?	KEY
1.12. Identify PART G?	HOUSING / COUPLING
1.13. Why was the drawing revised for a second time?	COLOUR CHANGE
1.14. When was the drawing revised for the first time?	22-05-2009
1.15. What material is being used?	MILD STEEL
1.16. What is the drawing reference number?	4545 / 36YG
1.17. What is the world wide web address of this company?	www.rbe.co.za
1.18. What tool can be used to turn PART E in PART G?	SPANNER, VICE GRIP
1.19. How many holes must be tapped on PART G?	6
1.20. What type of hole is shown by H?	THROUGH HOLE
1.21. What does PCD stand for?	PITCH CIRCLE DIAMETER
1.22. List 1 career opportunity in this company for an EGD student?	ENGINEER/CAD DRAUGHTER
1.23. A mechanic who cuts himself while assembling these parts, must wipe away the blood and clean the working area. Why?	HIV / AIDS INFECTION
1.24. List 1 way in which EGD has contributed to the technological development of this company?	AUTOCAD

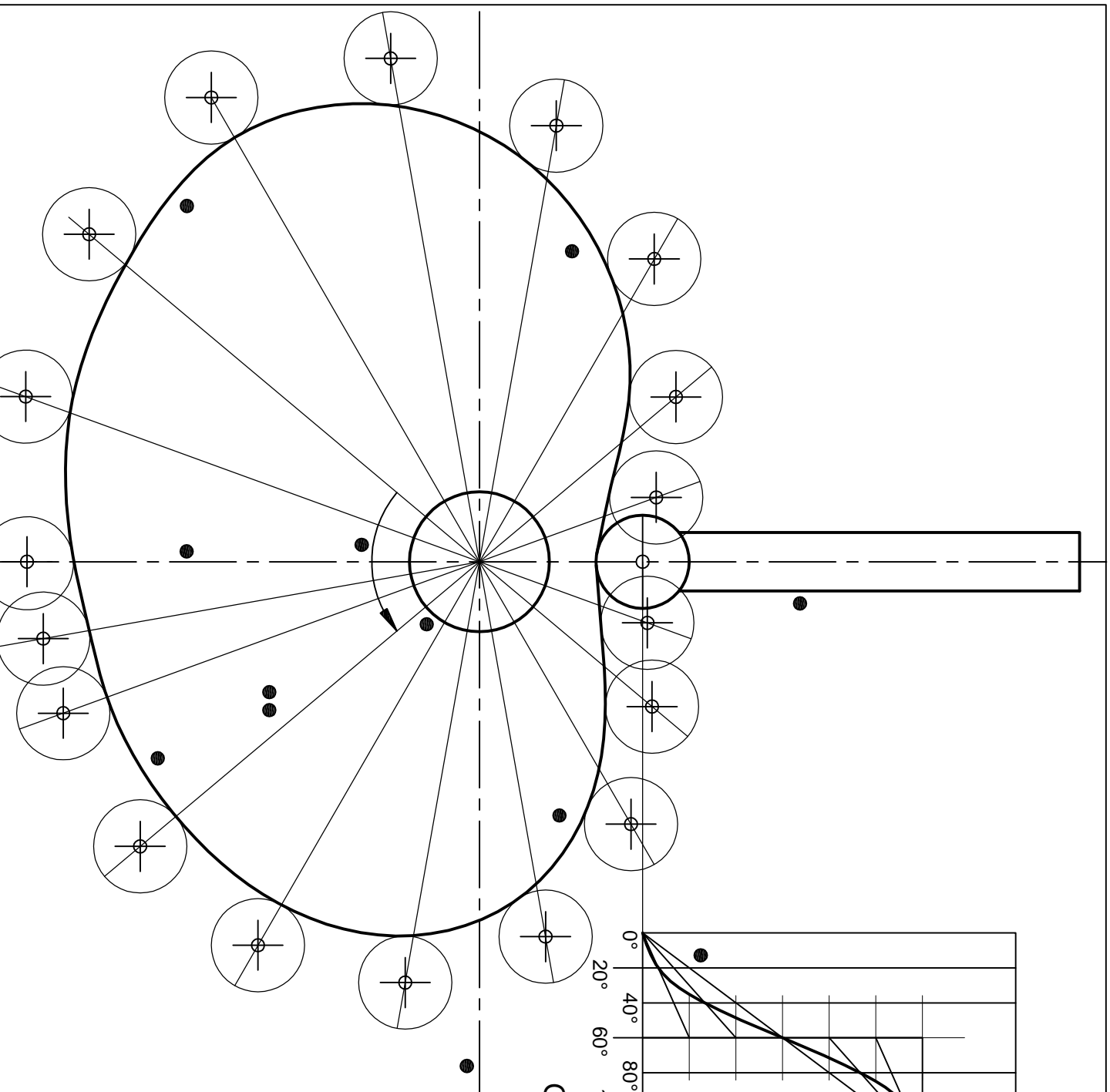
TOTAL

24



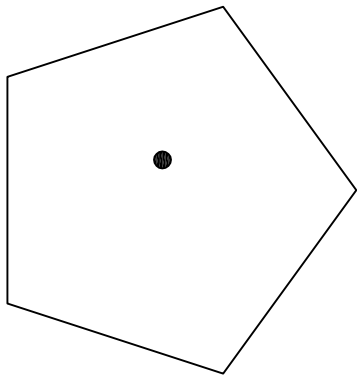
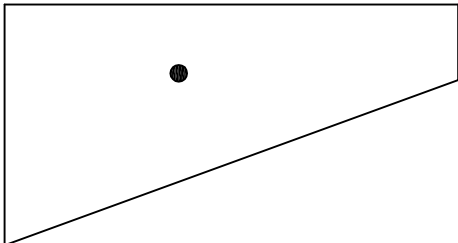
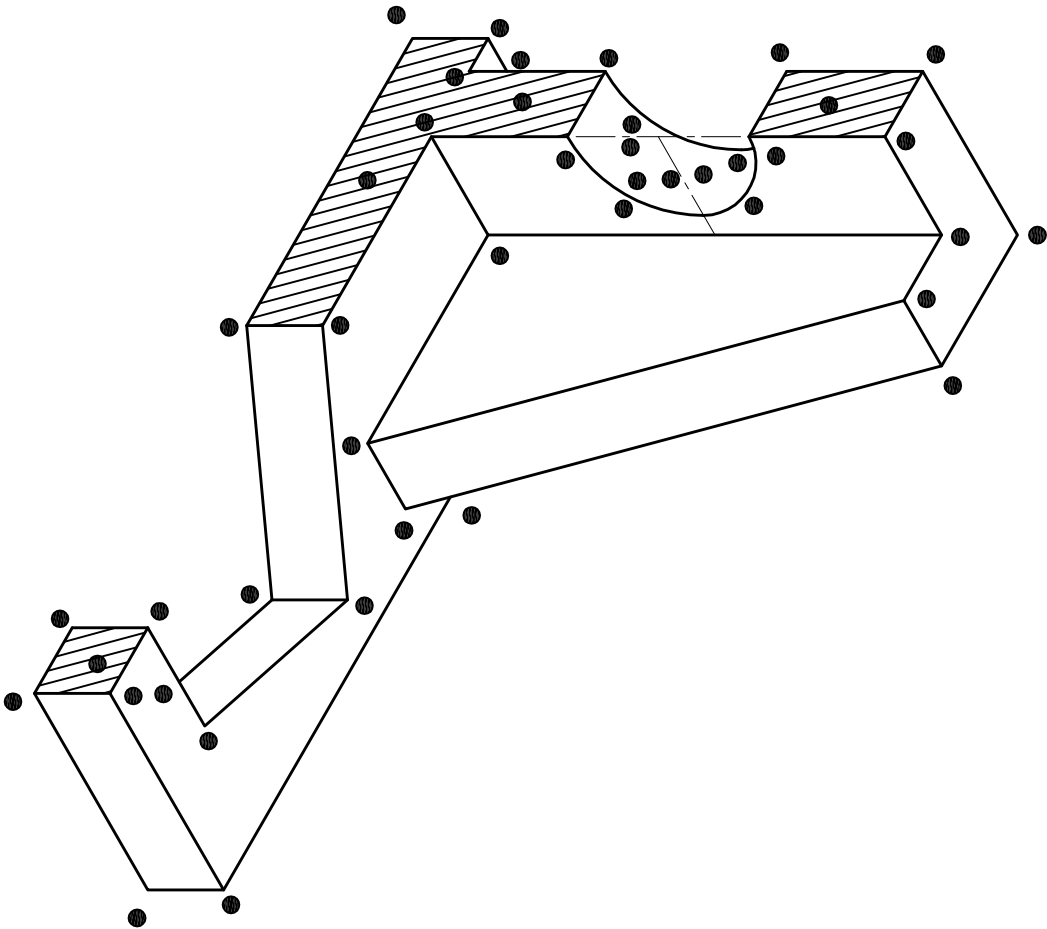
**GRAPH OF DISPLACEMENT**

SCALE 6mm = 20° ROTATION



- GRAPH
- CIRCLES
- FOLLOWER, CAM SHAFT, DIRECT., DIVISIONS
- C/LINES
- CURVE

TOTAL	10	19	5	2	6	42
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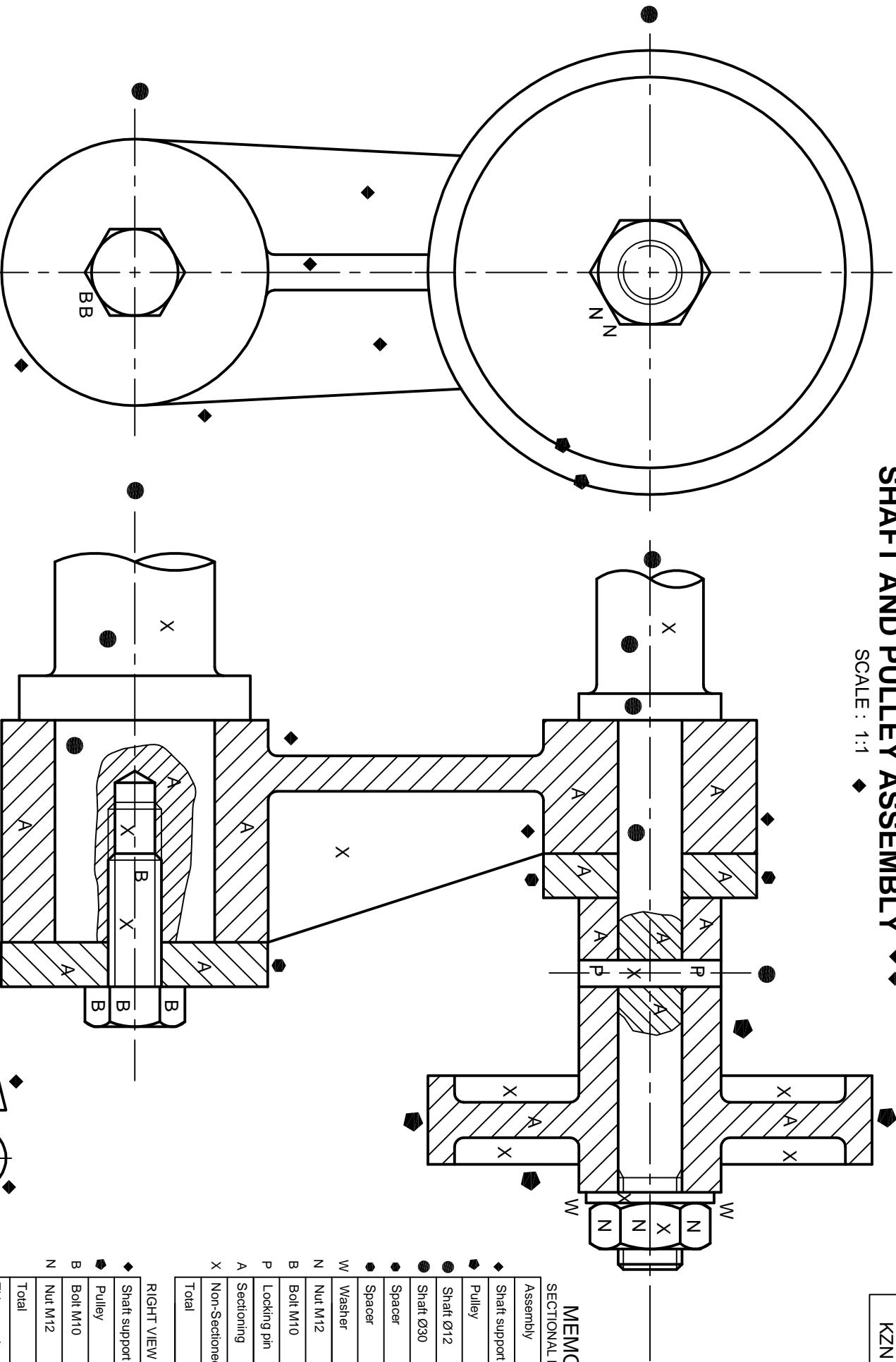


- SECTION
- POINTS
- CIRCLES
- C/LINES
- CONSTR.

SECTION	4
POINTS	31
CIRCLES	4
C/LINES	2
CONSTR.	4
<b>TOTAL</b>	<b>45</b>

# SHAFT AND PULLEY ASSEMBLY ♦♦

SCALE: 1:1 ♦



## MEMORANDUM

SECTIONAL FV	
Assembly	10
Shaft support	4
Pulley	4
Shaft Ø12	3
Shaft Ø30	2
Spacer	2
Spacer	2
Washer	2
Nut M12	3
Bolt M10	4
Locking pin	2
Sectioning	15
Non-Sectioned	12
<b>Total</b>	<b>65</b>

## RIGHT VIEW

Shaft support	5
Pulley	2
Bolt M10	2
Nut M12	2
<b>Total</b>	<b>11</b>
Titles, scale, symbol	7
Centre Lines	6

<b>TOTAL</b>	<b>89</b>
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RIGHT VIEW

SECTION C-C ♦♦