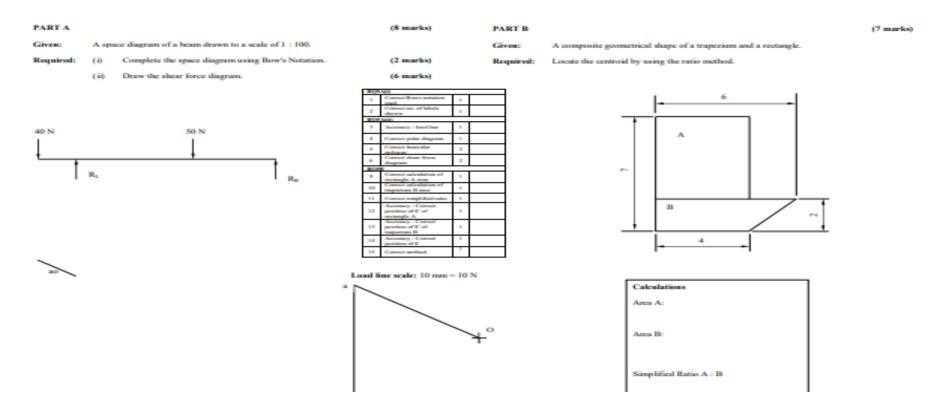
YEAR 12C & 12D TECHNICAL DRAWING WORKSHEET 1

Attempt the given exercises on beams, centroids, rolling wheel, scales and involute. $\underline{\text{QUESTION 1}}$



QUESTION 2

QUESTION 4

PART A (7 marks)

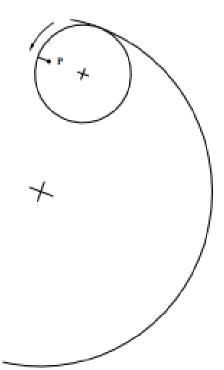
Given: A rolling circle moving along a curved path in an

anti-clockwise direction.

Required: Draw the locus of point P inside the rolling circle for

% revolution

Name the curve formed: (1 mark)



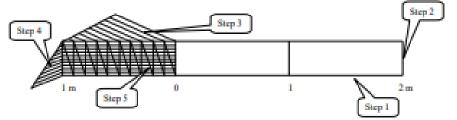
100	IA.		
	Correct division of circle		
	Correct divisions on colling sirale and labels shown	-	
3	Correct generating lines or mathed	-	
4	Assumey of C _c to C _c locations	-	
8	Assuming of P ₁ to P ₂ bootions	-	
	Consul shape of losses		
7	Correct name of the	-	
100	U		
1	Coront 3 steps	-	
110	E		
•	Correct method	•	
	Correct owner	•	
-	Neutron	•	

(15 marks)

(6 marks)

PART B	All the second of the second o
ECONOMIC DE	(5 marks)

Given: A diagonal scale of 50 mm equals to 1 m which reads up to 3 m.



Required: Write the 5 steps that are required to construct the above diagonal

Step 1: _____

Step 2:

atep 3:

Siep 4: _____

Step 5:

PART C (3 marks)

Given: A triangle ABC.

Required: Construct the involute of triangle ABC which unwinds in a

clockwise direction.

