

### 3055 BA SANGAM COLLEGE

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School: Ba Sangam College

Year/Level: 11

Subject: Technical Drawing

Worksheet 12

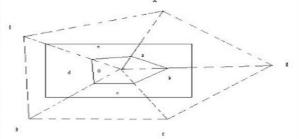
Name: \_\_\_\_\_\_\_

Year: \_\_\_\_\_\_

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Strand	Geometrical Drawing	
Sub Strand	Surveying	
Content Learning	Know the different methods of surveying	
Outcome		

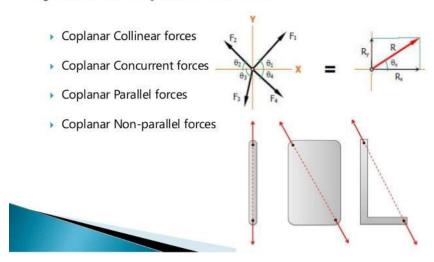
## **Method Of Radiation**

 In the radiation method of plane table surveying, the direction of the objects or points to be located are obtained by drawing radial lines along fiducial edge of alidade after getting the objects or points bisected along the line of sight of the alidade. The horizontal distances are then measured and scaled off on the corresponding radial lines to mark their positions on the drawing.





# **System of Coplanar Forces**



Activity (15 marks)

PART A

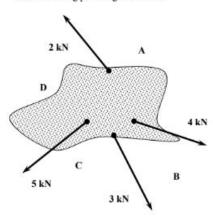
Given: Space diagram with four coplanner forces ABCD acting

on a plane.

Required: Determine graphically the magnitude and the location of

the resultant force.

Use the scale as 10 mm = 1 kN. Use the starting point A given below.



BQ4A			
1	Correct Bows Notation	1	
2	Correct force diagram	2	
3	Correct location of resultant force	2	
4	Correct magnitude of resultant force	2	
5	Correct line work	1	

(8 marks)

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Given:

- (a) Starting point A.(b) Direction of North.
- (c) Rice farm to a scale of 1:1000

### Required

(i) Name the method to be used: (1 mark) (ii) Complete the FIELD BOOK given below. (6 marks)

### FIELD BOOK

PEG	DISTANCE (m)	FORWARD BEARING (*)	BACKWARD BEARING (°)
OA			
OB	T T		
OC	2 3	8	
OD			

