

3055 BA SANGAM COLLEGE

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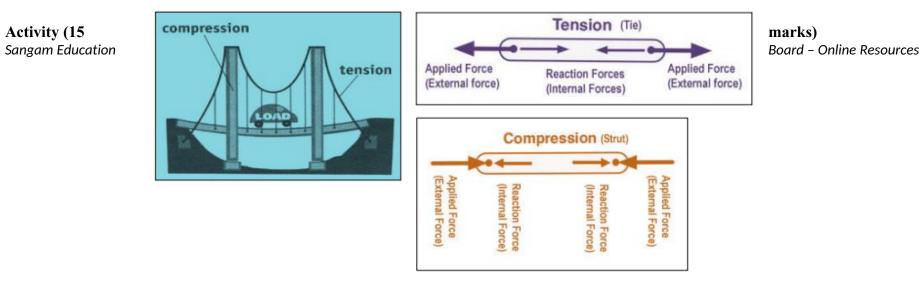
School: Ba Sangam College Subject: Technical Drawing

Year/Level: 13 Worksheet 17

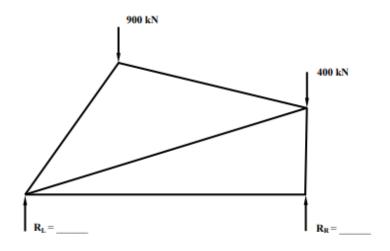
Name:	
Year: _	

Strand	Applied Mechanics
Sub Strand	Truss
Content Learning Outcome	Define the terms and use the knowledge to do truss analysis

Reaction of Members



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Given: A typical truss with loads acting on it and its sketch not drawn to scale.			
Required:	(i)	Find the reactions R_L and R_R at the supports.	(5 marks)
	(ii)	Determine the magnitude and nature of the members of the truss by completing the table given on the below.	(9 marks)

MEMBER	AE	BE	CF	DF	EF
MAGNITUDE					
NATURE					

(i)			
1	Accuracy - load line	1	
2	Correct polar diagram	1	
3	Correct funicular polygon	2	
4	Correct value of $R_{\rm L}$ and $R_{\rm g}$	1	
5	Correct units shown	1	
(ii)			
6	Correct value of members magnitude	3	
7	Correct nature of members	3	
8	Correct shape of vector diagram	2	
9	Correct labels	1	

Load line scale: 10mm = 100 kN

a

+ 0

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