

ABES ENGINEERING COLLEGE, GHAZIABAD Department of Mechanical Engineering 2023-24 Fundamentals of Mechanical Engineering (BME-101)

Practice Sheet		Unit I
Topic	Varignon's Theorem	
Course	B. Tech	
Semester	I	
Date	02/11/2023	

Q. NO.		
1.	State and derive Varignon's theorem.	
2.	borizontal line $ABCD$ measuring 9 m is acted upon by forces of magnitude 400, 600, 400 and $AB = BC = CD = 3$ m. The lines of action of the forces are inclined at 90°, 60°, 45° and $AB = BC = CD = 3$ m. The lines of action of the magnitude, position and direction of the sultant. Hint:	
	A = 3 m $A = 3 m$ $A = 3 m$ $A = 3 m$	