

	/ DATE: / / P
	Let their resultant R make angle 0 with X-axis. The perpendicular distances of F., F2 and R from point A are di, d2 and d respectively. The distances di, d2 and d can be expressed in terms of OA as follows:
	X-aris. The payment of with
	and R luce perpendicular distances of F, F2
	mercals with TT point A are di, de and d
	and d
	con of expressed in terms of OA as follows:
	Cos 9 = di 1
	OA
	or di= OA: Cos O, 100)
	- A STATE OF THE S
	d2 = 0A Cos O2
	die die OA COSO TOPOTORIO MIL
	The moment of Rabout A is
	The first of the state of the s
	$M_R = R \times d$
-7 hr.	Rx (OA COSO)
Š.	
	MR = OA (Ricoso)
	11000
	The x-component of resultant is
	The x-component of resultant is
	Dr.
	$R_{\mathcal{H}} = R \cos \theta$
100	MR = OA. Rx

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7	
	To mament of F, about A is
	The Polorotas
	$M_i = F_i \times d_i$
	= F, (OA COS O,)
	M, = OA (F, COSO)
	AQ AQ
	But Fi Coso, = Fix i.e x-component
	F -
	$M_1 = OAFix$ $\longrightarrow (ii)$
	The moment of F2 about A is
	\mathbf{p}
	$M_2 = F_2 \cdot Q_2$ $M_2 = F_2 \cdot Q_2 \cdot Q_2$
	$\frac{1}{12} = \frac{1}{2} \left(\frac{0}{12} \frac{1}{12} \frac{1}{1$
	But F2 Cos O2 Fi F2 a sie x-component of
	27 77 77 77 77 77
	$M_2 = 0A : F_{2x} \longrightarrow \begin{pmatrix} 0 \\ Ni \end{pmatrix}$
	Adding equations (ii) and (iii)
	$M_1 + M_2 = 0A F_{1}x + 0A F_{2}x$ $M_1 + M_2 = 0A (F_{1}x + F_{2}x)$
	M, + M, = OA (Fix + F2x)
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