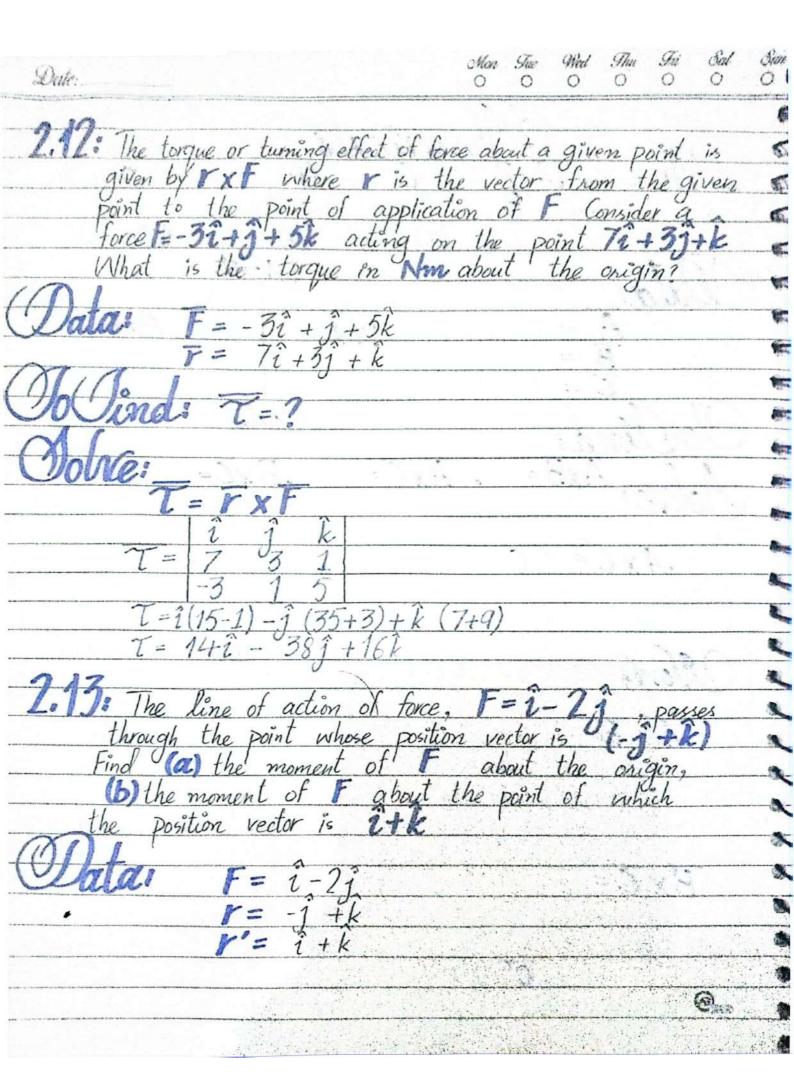
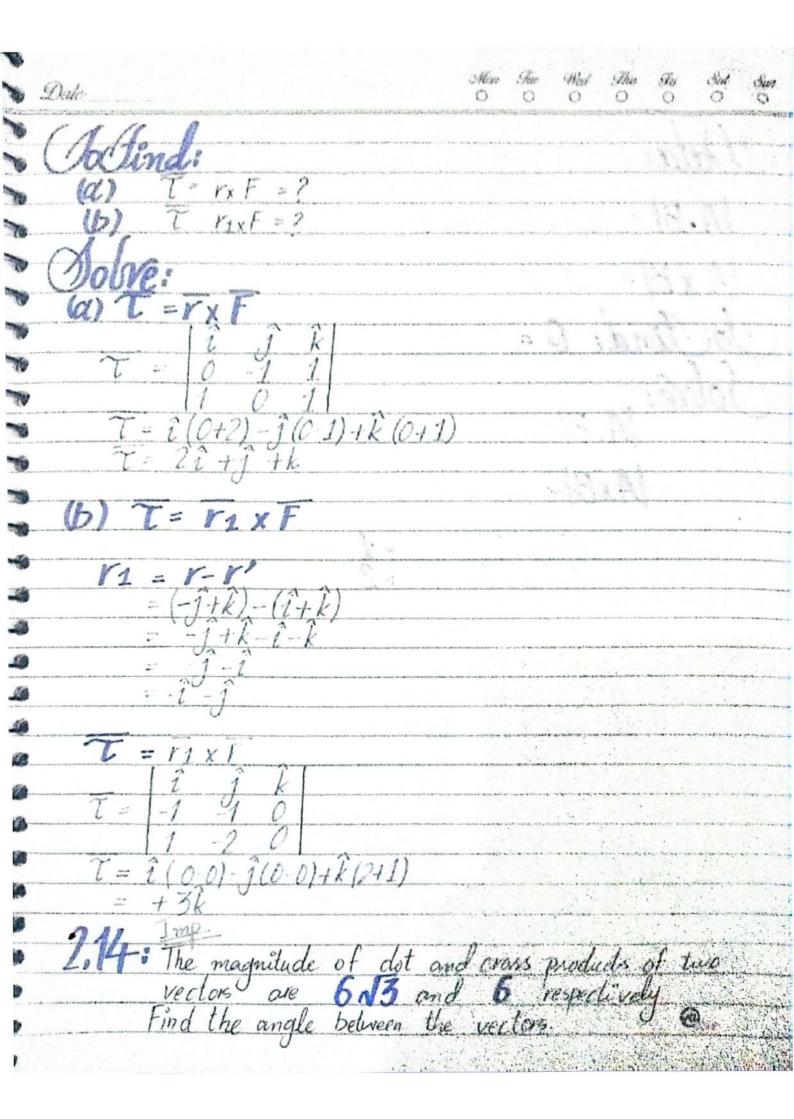
Mumericals. 2.14 Valor A. B. and C. and 4 units north, 3 units The local As B and cost inspectively

Deside contacty (a) AxB (b) AxC (c) BxC

(North = 4 units North West. = 5 wests West = 8 units East Oo Finds Solve: AxB= , AxC= BxC= AxC = ABsin Qn - (-U(8) sin (90) i 52 (1) n 52 n (115 direction is perpendicular javen AXB = AB sin Q 12 (-1)(0) sor(90) n2 12(1) n2 12 n (20 direction is prependicular cultury) BXC= Besine no Olsowelson





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			à		-	0

4 quilibrium "If a lady is at rest or smoving with singlome is relaily then the body is said to be in equelibrium."

• When a lady is at rest than the body is said to be in static equilibrium. • When a body is moving with uniform velocity than the body is in dynamic equilibrium First Condition Of Equilibrium: Vector sum of all the forces acting on a body is zero than the body satisfies the An case of coplanner forces:

Vector sum of all x-directed forces is zero than it can be written as: • Vector sum of all y-diveded lorges is zero than
il can be written as:
• Ety = 0

Oecond Condition Of Equilibrium

Vector sum of all the taynes ading on a body in vero than the body satisfies 2nd condition of equilibrium. Explanation: If two lorges acting on a same body, oppositely act but there time of action of points are different.

50, body volate sits lowers. dy rolate, its lorque must be zero 1) When 1st condition of equilibrium satisfies than the body is in translational equilibrium 2) When 2"deordation of equilibrium satisfies than the body is in rotational equilibrium 3) For complete equilibrium ZF=01, ZT=0