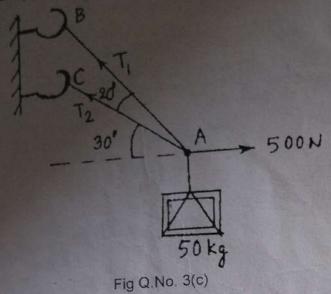
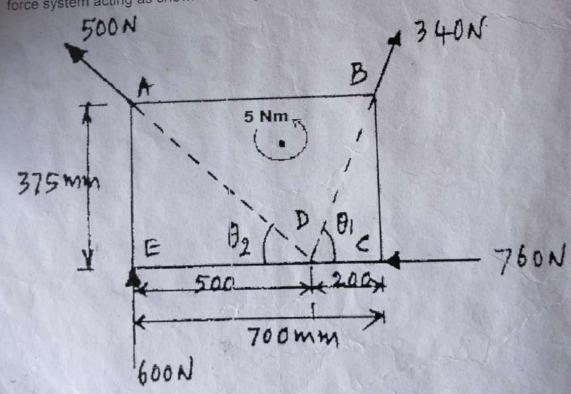
- a) Prove Varignon's Theorem.
 b) Explain Equivalent Force-Couple System with a neat sketch.
 c) Determine the tension in the cable AB and AC required to hold a 50Kg crate as shown in fig Q.No. 3(c). Take g=9.81 m/s²



- Define Equilibrant. List any three characteristics of a couple.
 - Determine the magnitude direction and point of application of the resultant of the force system acting as shown in the fig Q.No.4(b). Indicate its position at point A.



BT* Bloom's Taxonomy, L* Level