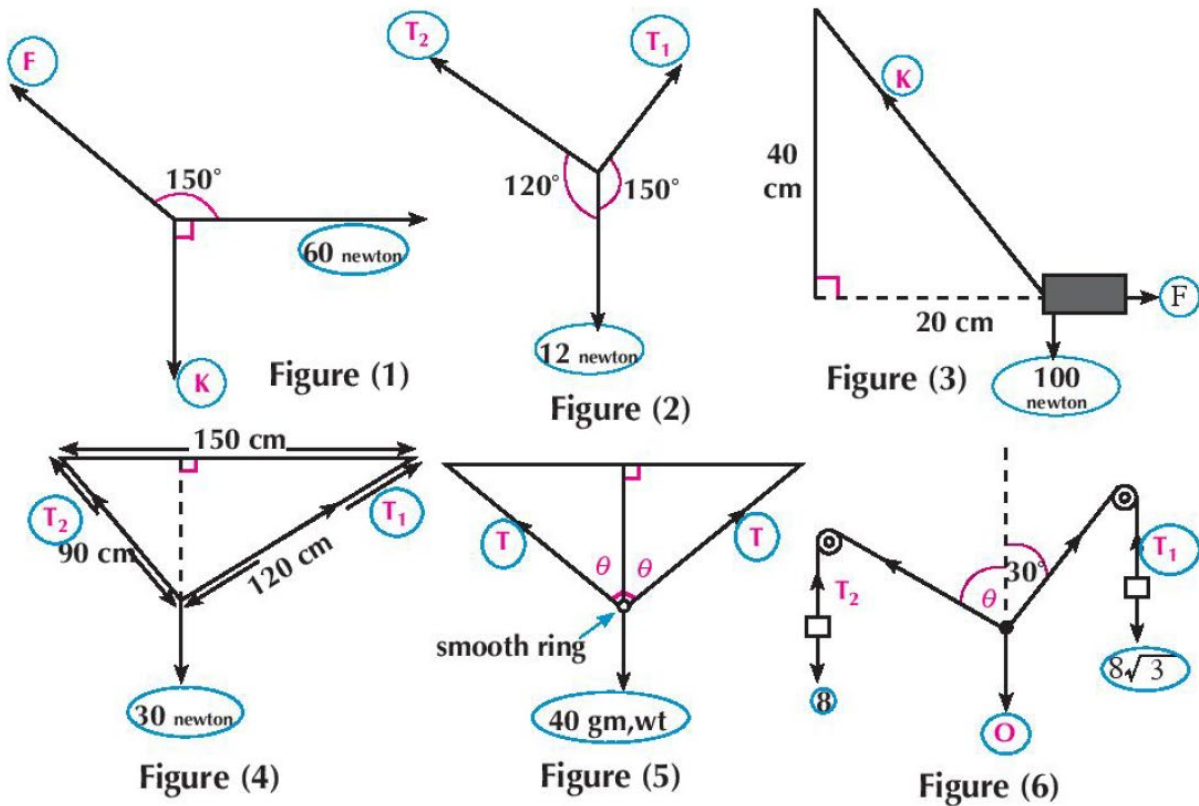


- 6 Each figure from the following figures represents a set of coplanar equilibrium force meeting at a point. Find the value of the unknown either it is a force or a measure of angle .



- 7 AB is a uniform ladder with weight 12 kg.wt rests with its upper end A on a smooth vertical wall and with its lower end B on a rough horizontal ground such that its upper end is 4m from the ground and its lower end is 3m from the vertical wall. Find in the case of equilibrium the pressure on the wall and the ground.
- 8 AB is a uniform rod with length 60cm and weight 40 Newton connected to a hinge on the vertical wall at A. If the rod is kept in equilibrium by a light string connected to the rod at B and with point C on the wall just above A and at a distance 60 cm from A. Find the tension on the string and the reaction on the hinge at A.