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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

- (d) A smooth circular cylinder of radius 2 m is lying in a triangular groove, one side of which makes 20° and other side makes 40° angle with the horizontal. Find the reaction at the surfaces of contact, if there is no friction and the cylinder weighs 2 kN.

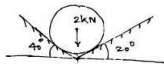


Fig. 2

- (e) Briefly explain the Varignon's Principle.
(f) Draw the bending moment diagram of the cantilever beam shown in the figure.

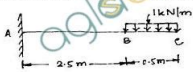


Fig. 3

- 2 Attempt any **four** of the following : 3x4=12
(a) Differentiate between an imperfect truss, perfect truss and redundant truss.
(b) For the given truss find the forces in members BC, CD and BD.

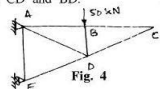


Fig. 4

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