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If the problem is not solved directly from the physics, then, □ use the method of

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joints to solve for the unknowns if they are near a known force that can be used in the solution. □ use the method of sections to solve for the unknowns if they are not near a known force that can be used in the solution.

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□ Create a free-body diagram of the joist. Note that the joist is a 3 force body acted



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Solutions by the rope, its weight, and the reaction at . A.

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consisting of two rigidly connected pulleys is acted on by a couple and two tension forces, the latter exerted by belts which are securely wrapped onto the two pulley surfaces (as shown in the drawing).

Determine the equivalent force-couple system at the pulley axis O.



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using "Statics" i.e. Drawing FBDs and writing equilibrium equations.

Determinate : When, not all the unknowns can be found using Statics. ...  $V_1 = V_2 < U \Rightarrow$  Infinitely many solutions possible

(ii)  $V_1 < V_2 \Rightarrow$  No solution exists Note :

In this procedure, it is better not to reduce

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the number of unknowns or number of  
equations by using

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In this practice problem, the vectors are  
rigged so that the alternate solution is  
easier than the default solution. The

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graphical method for addition of vectors requires placing them head to tail. The sum would be the resultant vector connecting the tail of the first vector to the head of the last.

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**Example Solution: FBDs**  $A_x = 4.32 \text{ kN}$   $A_y = 3.92 \text{ kN}$   $D = 4.32 \text{ kN}$  CE is a two-force member Direction of the line joining the two points of force application determines the direction of the forces acting on a two-force member. Shape of the member is not important. ME101 - Division III Kaustubh Dasgupta 11

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~~Frames and Machines~~

MEM202 Engineering Mechanics - Statics

MEM 7.2 Plane Trusses Method of Joints

1. Draw a free-body diagram of the entire structure and determine the reactions (if  $r = 3$ ). 2. Draw free-body diagrams for all members (assume tensile forces in all

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members) and all joints. 3. Set up the equilibrium equations for each joint and

## ~~Chapter 7 Trusses, Frames, and Machines~~

I didn't do as well on the last statics test as I'd have liked. I really want to work through some problems and make sure that I'm doing them right (Because I'm



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Solutions) but I can't find any good solutions. We're working out of the Hibbeler 13th edition statics book (just for reference of the content).