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Engineering Statics □MECH 223 Review Problems for Midterm 1 Set 2. 1. The unit 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. Solution:

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SOLUTION. The parallelogram law of addition and the triangular rule are shown in Figs.a and b, respectively. Applying the law of cosines to Fig.b, Ans. Applying the law of sines to Fig.b, and using this result, yields. $u=45.2^\circ$ Ans. $\sin(90^\circ + u) 700 = \sin 105^\circ 959.$ $=959.78 \text{ N}=960 \text{ N}.$ $F= 25002 + 7002 - 2(500)(700) \cos 105^\circ$

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KSU Dept of ME Engineering Mechanics- Statics Midterm Stud Name: ID: Apr/27/2011 Note: Closed book Calculator is allowed. Write down necessary equations based on the equilibrium of forces before you start your calculations. 1. The three concurrent forces acting on the post produce a resultant force $F_R = 0$. If

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$2.7 + 2 + 6 + 2 + 6$ $R = (P_2 \cos 25^\circ + P_3 \cos 40^\circ) \mathbf{i} + (P_1 + P_2 \sin 25^\circ) \mathbf{j} + P_3 \sin 40^\circ \mathbf{k} = 800\mathbf{i} + 700\mathbf{j} + 500\mathbf{k}$ lb
Equating like coefficients: $P_2 \cos 25^\circ + P_3 \cos 40^\circ = 800$ $P_1 + P_2 \sin 25^\circ = 700$ $P_3 \sin 40^\circ = 500$
Solution is $P_1 = 605$ lb $P_2 = 225$ lb $P_3 = 778$ lb
 $T_1 = 90\mathbf{p} \sqrt{1^2 + 2^2 + 6^2} = 14:06\mathbf{i} + 28:11\mathbf{j} + 84:33\mathbf{k}$ kN
 $T_2 = 60\mathbf{p} \sqrt{2^2 + 3^2 + 6^2} = 17:14\mathbf{i} + 25:71\mathbf{j} + 51:43\mathbf{k}$ kN
 $T_3 = 40\mathbf{p} \sqrt{2^2 + 3^2 + 6^2} = 11:43\mathbf{i} + 17:14\mathbf{j} + 34:29\mathbf{k}$ kN
 $R = T_1 + T_2 + T_3 = (14:06 + 17:14 + 11:43)\mathbf{i} + (28:11 + 25:71 + 17:14)\mathbf{j} + (84:33 + 51:43 + 34:29)\mathbf{k}$

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