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Solution Monday, July 18, 2005  
11:00 AM – 11:50 AM I. Solve all

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five problems II. Each problem is 20 points. Therefore, solve the easy one first. III. Extra credit is 5 points. IV. Equations you may need are given on the last page. NAME: I.D.: 1. 2. 3. 4. 5. Extra credit:

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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 Solutions

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.  $\sin(90^\circ + u) 700 = \sin 105^\circ$

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$$959. = 959.78 \text{ N} = 960 \text{ N. } F = 25002 + 7002 - 2(500)(700) \cos 105^\circ$$

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produce a resultant force  $F_R = 0$ . If

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## Solutions Midterm Solutions

$$2.7 + 2 + 6 + 2 + 6 R = ( P_2 \cos 25 P_3 \cos 40 )i + (P_1 + P_2 \sin 25 )j + P_3 \sin 40 k = 800i + 700j + 500k \text{ lb}$$

Equating like coefficients:  $P_2 \cos 25 P_3 \cos 40 = 800$   $P_1 + P_2 \sin 25 = 700$   $P_3 \sin 40 = 500$  Solution is  $P_1 = 605 \text{ lb}$   $P_2 = 225 \text{ lb}$   $P_3 = 778 \text{ lb}$   $2.8 i + 2j$

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**Soluzioni**

$$\begin{aligned}
 +6k \text{ T1} &= 90p \left( \frac{1}{2} \right)^2 + \left( \frac{2}{2} \right)^2 + \left( \frac{2}{2} \right)^2 = 14:06i + \\
 &28:11j + 84:33k \text{ kN } 2i \ 3j + 6k \text{ T2} = \\
 &60p \left( \frac{2}{2} \right)^2 + \left( \frac{3}{2} \right)^2 + 6^2 = 17:14i \ 25:71j \\
 &+ 51:43k \text{ kN } 2i \ 3j + 6k \text{ T3} = 40p \ 2^2 + \\
 &(\frac{3}{2})^2 + 6^2 = 11:43i \ 17:14j + 34:29k \text{ kN } 3)2 + \\
 62 \text{ R} &= \text{T1} + \text{T2} + \text{T3} = (14:06 \ 17:14 + \\
 &11:43)i + (28 \dots
 \end{aligned}$$

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