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~~Engineering Mechanics - Statics Chapter 6 Problem 6-1 Determine the~~  
~~force in each member of the truss and state if the members are in~~  
~~tension or compression. Units Used: kN 10<sup>3</sup> = N Given: P1 = 7kN P2~~  
~~= 7kN Solution: = 45 deg Initial Guesses: FAB = 1kN FAD = 1kN~~  
~~FDB = 1kN FDC = 1kN FCB = 1kN Given Joint A: FAB~~  
~~+FADcos() = 0 - P1 - FADsin() = 0~~

~~Engineering Mechanics - Statics Chapter 6~~

~~plane. If a force  $F = 12.5t^2$  lb, where  $t$  is in seconds, acts on the block~~

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for 3 s, determine the final velocity of the block and the  $F = (2.5t)$  lb distance the block travels during this time. SOLUTION + 10 :  $\odot F_x = \max; 2.5t = \phi 32.2$   $a = 8.05t$   $dv = a dt$   $\int_0^t dv = \int_0^t 8.05t dt$   $v = 4.025t^2 + 10$  When  $t = 3$  s,  $v = 46.2$  ft/s laws or

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$(F_1)_v \sin 45^\circ = 4. \sin 105^\circ$ ;  $(F_1)_v = 2.928 \text{ kN} = 2.93 \text{ kN}$  Ans.  $(F_1)_u \sin 30^\circ = 4. \sin 105^\circ$ ;  $(F_1)_u = 2.071 \text{ kN} = 2.07 \text{ kN}$  Ans. 2 – 7. Resolve the force  $F_1$  into components acting along the  $u$  and  $v$  axes and determine the magnitudes of the components.  $u. v. 75! 30! 30! F_1 " 4 \text{ kN. } F_2 " 6 \text{ kN. exist.}$

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$FR = 2(F)2 + (F)2 - 2(F)(F) \cos (180^\circ - u)$  Since  $\cos (180^\circ - u) = -\cos u$   $FR = F A 22 B 21 + \cos u u 1 + \cos u$  Since  $\cos a b = 2 A 2$  Then  $u FR = 2F \cos a b 2$  Ans.

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