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(a) Consider a situation in which the force  $F$  applied to a particle of mass  $m$  is zero. Multiply the scalar form of Eq. (1.2) on page 7 (i.e.,  $a = dv/dt$ ) by  $dt$ , and integrate both sides to show that the velocity  $v$  (also a scalar) is constant. Then use the scalar form of Eq. (1.1) to show that the (scalar) position  $r$  is a linear function of time.

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SOLUTION. Solving: Ans.  $F_1 = 4.31 \text{ kN}$  Ans.  $u = 4.69^\circ$   $F_1 \sin u = 0$ .  $+c \odot F_y = 0$ ;  $6 \cos 70^\circ + 5 \sin 30^\circ - F_1 \sin u - 3.5(7) = 0$ .  $F_1 \cos u = 4$ .  $+ \odot F_x = 0$ ;  $6 \sin 70^\circ + F_1 \cos u - 5 \cos 30^\circ - 4.5(7) = 0$ . The members of a truss are pin connected at joint O. Determine the magnitude of and its angle for equilibrium. Set  $F_2 = 6 \text{ kN}$ .  $F_1$  u. u.  $F_1$ .  $70^\circ$   $F_2$ .  $30^\circ$   $7 \text{ kN}$ .  $5 \text{ kN}$ .  $4$ .  $y$ .  $x$  O.  $53$

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