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2-2. y, resultant force and its direction, measured counterclockwise from the positive x axis. F u 15 700 N. SOLUTION The parallelogram law of addition and the triangular rule are shown in Figs ...

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SOLUTION. Ans. Ans. 19. sin 1.47 ° = 30. sin u; u=2.37 ° FR= 2 (30.85) 2 + (50) 2 - 2(30.85)(50) cos 1.47 ° =19.18=19.2 N. 30. sin 73.13 ° = 30. sin (70 ° -u_L); u_L=1.47 ° F_L= 2 (20) 2 +(30) 2 - 2(20)(30) cos 73.13 ° =30.85 N. Determinethemagnitudeand directionofthe resultant of the three forces by first finding the resultantF_L=F 1 + F 2 and then formingFR=F_L+F 3.

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SOLUTION v2 = 30 km>h = 8.33 m>s 2 v2 = v1 + 2 ac (s2 - s1) (8.33)2 = 0 + 2 ac (20 - 0) ac = 1.74 m>s2 v2 = v1 + ac t 8.33 = 0 + 1.74 (t) t = 4.80 s Ans. 10. * 12–8. A particle moves along a straight line with an acceleration of a = 5>(3s1>3 + s5>2) m>s2, where s is in meters.

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