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triangular rule are shown in Figs.aand 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 ° Ans. sin (90 ° +u) 700 = sin 105 ° 959. =959.78 N=960 N. F= 25002 + 7002 - 2(500)(700) cos 105 °

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2.7 + 2 + 6 + 2 + 6 R = (P2 cos 25 P3 cos 40)i + (P1 + P2 sin 25)j + P3 sin 40 k = 800i + 700j + 500k lb Equating like coe¢cients: P2 cos 25 P3 cos 40 = 800 P1 + P2 sin 25 = 700 P3 sin 40 = 500 Solution is P1 = 605 lb J P2 = 225 lb J P3 = 778 lb J 2.8 i + 2j + 6k T1 = 90p (1)2 2 2 = 14:06i + 28:11j +

84:33k kN 2i 3j + 6k T2 = 60p (2)2 + (3)2 + 62 = 17:14i 25:71j + 51:43k kN 2i 3j + 6k T3 = 40p 22 + (= 11:43i 17:14j + 34:29k kN 3)2 + 62 R = T1 + T2 + T3 = (14:06 17:14 + 11:43)i +(28 ...

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