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Solution: The two possible values ofVare shown in the sketch. The strategy is to (a) determine the unit vector associated withU, (b) express this vector in terms of an angle, (c) add š 90 ° to this angle, (d) determine the two unit vectors perpendicular toU, and (e) calculate the components of the two possible values ofV.

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Solution: Draw the vectors accurately and then measurejFAC. FBj. jFACFBjD134 N. Problem 2.8 The sum of the forces FACFBC FCD 0. The magnitudejFAjD100 N and the angle¸ D 60 °. Graphically determine the magnitudesjFBjandjFCj. 30 FB FA FC. a. Solution: Draw the vectors so that they add to zero. jFBjD86.6 N,jFCjD50.0 N. Problem 2.9 The sum of the forces FACFBC FCD 0.

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