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|  | Problem 2.8  A stake is being pulled out of the ground by means of two ropes as shown. Knowing that *α*  30°, determine by trigonometry (*a*) the magnitude of the force **P** so that the resultant force exerted on the stake is vertical, (*b*) the corresponding magnitude of the resultant. |

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| Solution  bee02286_s02005  Using the triangle rule and the law of sines:  (*a*)  ◄  (*b*)  ◄ |