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|  | Problem 2.6  A steel tank is to be positioned in an excavation. Knowing that the magnitude of **P** is 500 lb, determine by trigonometry (*a*) the required angle **if the resultant **R** of the two forces applied at *A* is to be vertical, (*b*) the corresponding magnitude of **R**. |

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| Solution  bee29230_s02-012  Using the triangle rule and the law of sines:  (*a*)  ◄  (*b*)  ◄ |