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| bee87302_p02010.tif | **Problem 2.9**  Two forces are applied as shown to a hook support. Knowing that the magnitude of **P** is 35 N, determine by trigonometry (*a*) the required angle *α* if the resultant **R** of the two forces applied to the support is to be horizontal, (*b*) the corresponding magnitude of **R**. |

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| **bee29230_s02-007Solution**  Using the triangle rule and law of sines:  (*a*)    (*b*)   |