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| ch02-07.jpg | **Problem 2.7**  A trolley that moves along a horizontal beam is acted upon by two forces as shown. (*a*) Knowing that *α*  25°, determine by trigonometry the magnitude of the force **P** so that the resultant force exerted on the trolley is vertical. (*b*) What is the corresponding magnitude of the resultant? |

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| **Solution**  bee29230_s02-009  Using the triangle rule and the law of sines:  (*a*)     (*b*)   |