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| ch02-07.jpg | **Problem 2.11**  A trolley that moves along a horizontal beam is acted upon by two forces as shown. Determine by trigonometry the magnitude and direction of the force **P** so that the resultant is a vertical force of 2500 N. |

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| **Solution**  bee29230_s02-010  Using the law of cosines:  Using the law of sines:  *P* is directed  below the horizontal. **angle 2** |