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| bee87302_p02003-04.tif | **Problem 2.14**  Solve Problem 2.4 by trigonometry.  **PROBLEM 2.4:** Two structural members *B* and *C* are bolted to bracket *A*. Knowing that both members are in tension and that *P*  6 kips and  *Q*  4 kips, determine graphically the magnitude and direction of the resultant force exerted on the bracket using (*a*) the parallelogram law, (*b*) the triangle rule. |

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| **bee02286_s02016Solution**  Using the force triangle and the laws of cosines and sines:  We have:  Then  And  angle 10  **** |