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| bee87302_p02003-04.tif | **Problem 2.3**  Two structural members *B* and *C* are bolted to bracket *A*. Knowing that both members are in tension and that *P*  10 kN and *Q*  15 kN, 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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| **Solution**  (*a*) Parallelogram law:  bee02286_s02003a  (*b*) Triangle rule:  bee02286_s02003b  We measure:    **angle 5**   |