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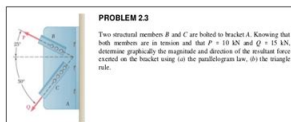


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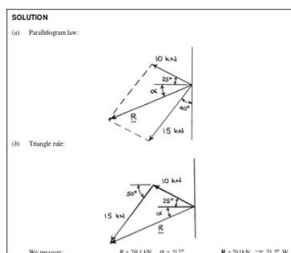


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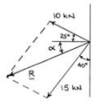
### PROBLEM 23

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.



### SOLUTION

(a) Parallelogram law:



(b) Triangle rule:



We measure:

$$R = 20.1 \text{ kN}, \theta = 21.3^\circ$$

$$R = 20.1 \text{ kN}, \theta = 21.3^\circ \text{ W}$$

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