

## PROBLEM 2.1

Two forces are applied as shown to a hook. Determine graphically the magnitude and direction of their resultant using (a) the parallelogram law, (b) the triangle rule.

## SOLUTION

(a) Parallelogram law:

(b) Triangle rule:


We measure:

$$
R=1391 \mathrm{kN}, \quad \alpha=47.8^{\circ}
$$

$$
\mathbf{R}=1391 \mathrm{~N} \backslash 47.8^{\circ}
$$

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