

Exercise No. 1

Reduction of a system of forces

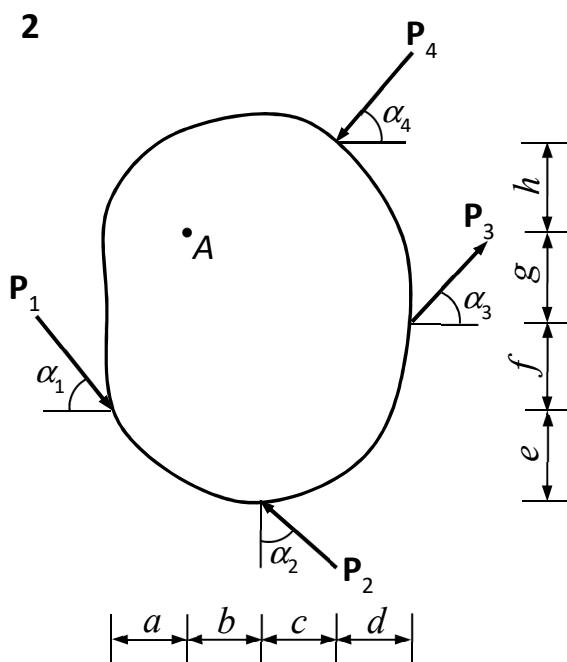
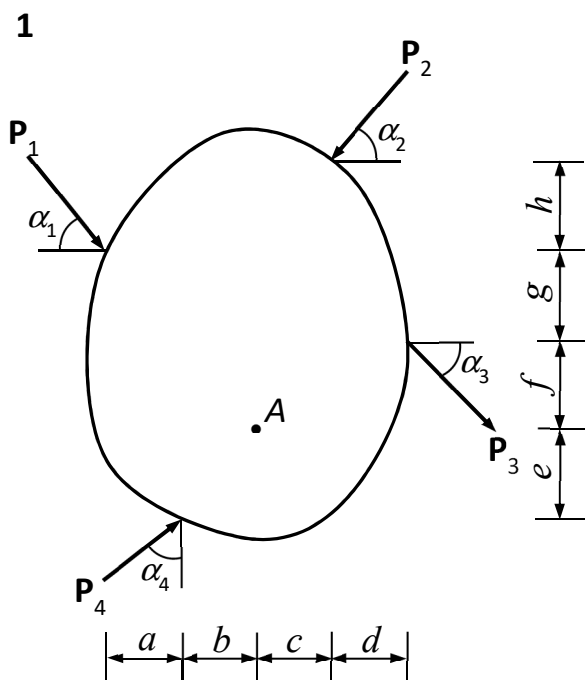
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The four-force system acts on the body No. _____. Reduce the given system of forces to one resultant force. Determine its magnitude and line of action. Calculation should be carried out using vector and scalar analysis.



$P_1 =$ _____ $\alpha_1 =$ _____

$P_2 =$ _____ $\alpha_2 =$ _____

$P_3 =$ _____ $\alpha_3 =$ _____

$P_4 =$ _____ $\alpha_4 =$ _____

$a =$ _____ $e =$ _____

$b =$ _____ $f =$ _____

$c =$ _____ $g =$ _____

$d =$ _____ $h =$ _____

