Rocket Ship Contour Drawing: Edge-Line Practice

Original tasks 1, 2 / independent work

Task 1

A reference rocket is 8 cm tall and its widest body width is 3 cm. Your panel is 12 cm tall. Compute the scale factor and the panel widest body width.

Task 2

On a reference rocket, the nose tip is at 0 cm and the nozzle bottom is at 9 cm. A fin attachment point is at 5 cm from the nose tip. Using a scale factor of 2, where is the fin attachment point on the panel measured from the nose tip?

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Original tasks 3, 4 / independent work

Task 3

You trace a rocket outline and measure the fin span on the reference as 4 cm. On your redrawn panel the fin span is 6.2 cm. Your scale factor is 1.5. Is the redrawn fin span within a 0.5 cm tolerance of the expected value?

Task 4

A reference rocket has three widths: nose base 2 cm, widest body 3 cm, fin span 5 cm. Your panel is 1.2 times the reference height. List the three expected panel widths and state one valid alternative fin span if your tolerance is 0.4 cm.