Draw a Bass Drum: Shell, Hoops, and Tension Rods

Original tasks 1, 2 / independent work

Task 1

A bass drum has a head diameter of 50 units and a shell depth of 30 units. Using the two-thirds convention for the vertical axis, state the front ellipse dimensions and the shift for the back ellipse.

Task 2

A front hoop is drawn with a 3-unit offset around a head ellipse that is 40 units wide and 28 units tall. What are the hoop ellipse dimensions?

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Original tasks 3, 4 / independent work

Task 3

You want 6 evenly spaced tension rods on a front hoop. Describe how to find the spacing points using equal angular divisions rather than cardinal points plus bisection.

Task 4

A drawing shows a front hoop band that measures 4 units at the top, 4 units at the bottom, 6 units on the left, and 2 units on the right. State the likely error and a fix.