Draw a Portal Ring with Glow Shading: Easy Step-by-Step Guide

Original task 1 / independent drawing and calculation

Task 1

A portal ring has an outer ellipse with a major axis of 10 cm and a minor axis of 6 cm. The ring band is 1 cm wide. What are the inner ellipse axes?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Describe where to place the brightest highlight on a portal ring whose glow is strongest at the lower-left inner rim.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

A student draws a portal with a bright inner rim, a mid glow, and a center that is as bright as the rim. What is wrong and how to fix it?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Draw the same portal at low tilt and high tilt. The low-tilt outer ellipse has a major axis of 12 cm and a minor axis of 4 cm. The high-tilt version has a minor axis of 8 cm. If the band is 1 cm, list the inner axes for both.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.