Rat Exercise Wheel Cutaway: Frame, Axle, and Posture Drawing Guide

Original task 1 / independent drawing and calculation

Task 1

Draw a cutaway wheel with a hypothetical radius of 4 units, a base line tangent to the bottom, a two-leg frame, and a horizontal axle. Mark the center height above the base.

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

Draw a cutaway wedge from the center to the near rim on a wheel with a hypothetical radius of 6 units. Show the axle line extending 1 unit beyond the hub on each side. How long is the visible axle line?

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

Place a rat in the lower half of a wheel with a hypothetical radius of 5 units. The center is 5 units above the base. Put the rat's back 2 units below the center. How far is the rat's back above the base?

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 a cutaway wheel with a frame that has three legs. Keep the axle and rat visible. Describe where the third leg goes and how you keep the opening clear.

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.