

Make the reasoning inspectable.

Explore context-dependent tasks where each conclusion must follow the definitions and evidence supplied in the brief.

Task and inputs

Apply a technical note's local definitions to a new problem, showing the intermediate steps needed to check the conclusion.

A technical passage, its notation and definitions, boundary conditions, a question, and a worked reference. Mark any conventions that differ from the familiar form of the problem.

Working steps

1. Locate the relevant definitions and identify the object, regime, units, and assumptions required by the question.
2. Derive intermediate quantities using those conventions, preserving signs, normalization factors, and conditions at each transformation.
3. Assemble the conclusion and check it against the passage, including limiting cases where the brief supports them.

Deliverables

- Context and prompt
- Worked reference
- Step-level rubric
- Error annotations

Review and acceptance

Separate answer correctness from definition tracking, evidence use, and the first unsupported step.

- The solution uses the supplied definitions consistently, even when standard conventions differ.
- Intermediate claims identify their supporting equations or passages and remain dimensionally consistent.
- Review identifies the earliest unsupported step and distinguishes it from errors that follow.

Delivery boundary

The task measures reasoning within the supplied context. A correct response does not validate the underlying theory or establish performance across an entire scientific field.

This guide describes a project approach. It is not a customer result, a performance benchmark, or a statement of certification.

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