Graphing Linear Inequalities Foldable: Boundary Lines and Test-Point Shading

Worked graph



Shading shows the solution half-plane; boundary style follows the original comparison.

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Original worked example / unchanged complete key

Prompt: Graph the inequality $y < -2x + 4$. State the boundary line style, a test point, and the shaded half-plane.

Answer: Boundary: dashed line through (0,4) and (2,0) with slope -2. Test (0,0): $0 < 4$ is true, so shade the half-plane containing the origin, below the line.