Basketball Cross-Contour Drawing: Wrapping Lines Around a Sphere

Ordinary topic reference / separately checked pixels



Basketball Cross-Contour Drawing: Wrapping Lines Around a Sphere

Original worked example / unchanged complete key

Prompt: A student draws a 10 cm circle and states the convention: wider spacing and flatter curvature near the center, closer spacing and stronger curvature near the edge. They draw one cross-contour line through the upper half. At the center, the line is nearly flat; at mid-radius it bows slightly; near the edge it bows strongly. Spacing to the next line is 2 cm at center, 1.5 cm at mid-radius, and 1 cm near edge. Evaluate whether the line follows the stated convention.

Answer: The line follows the convention. Curvature increases from center to edge, and spacing decreases from 2 cm to 1.5 cm to 1 cm, matching the stated pattern. The line also crosses the vertical seam at an angle, so it reads as a cross-contour line rather than a seam-following line. One improvement: add a second line on the opposite side of the seam to show wrapping continuity.