Drawing Poses Upside Down: Using Proportion Landmarks to Rotate Figures

Original task 1 / independent drawing and calculation

Task 1

An upright seated figure has a hip-to-knee distance of 6 cm and a knee angle of 90 degrees. After a 180-degree rotation in place, what is the hip-to-knee distance and knee angle in the inverted drawing?

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

An upright reaching figure has a shoulder-to-wrist distance of 12 cm. The wrist is above the shoulder. After rotation, is the wrist above or below the shoulder, and what is the shoulder-to-wrist distance?

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 standing figure has head top to chin = 3 cm and knee to ankle = 5 cm. In the upright drawing, the head top is highest. List the vertical order of these four landmarks from top to bottom after a 180-degree rotation in place.

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

You rotate a figure in place 180 degrees. The upright figure's left shoulder is on the viewer's left. After rotation, is the body's left shoulder still on the body's left side? Explain using the rotation convention.

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.