Action Pose Drawing: Motion Lines and Dynamic Balance

Original task 1 / independent drawing and calculation

Task 1

A jumping figure has a COM at the apex. The trajectory line is vertical. Draw two motion lines that follow the trajectory and fan at the apex. Describe their direction and relative length.

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

A reaching figure has a support area 6 cm wide. The COM projection is 5 cm from the center of the support area. The foot-length unit is 4 cm. Is the pose within the one-foot-length limit?

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 running figure has motion lines trailing from the back foot and the forward arm. The back foot line is 3 cm long and the arm line is 1 cm long. Which part is moving faster according to the 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.

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Original task 4 / independent drawing and calculation

Task 4

A jumping figure in flight has no support point. What replaces the balance axis, and how should motion lines be drawn?

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.