Draw the Young-Woman/Old-Woman Illusion: Shared Contours and Dual Readings

Original task 1 / independent drawing and calculation

Task 1

On paper, draw a vertical axis and mark crown, eye line, and chin at 0, 5, and 10 units. Sketch one shared right contour from crown to chin and label it 'jaw / nose tip', noting the adjacent cheek line as the nose bridge. Add an ear/eye curve at eye level on the left side and label it. Add a necklace/mouth curve 1 unit below the chin and label it. Record your units.

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 student's drawing flips only after twelve seconds at one meter. They adjust the jaw/nose-tip contour by increasing its curvature by 1 unit at the midpoint. The flip time drops to four seconds. Did the adjustment solve the problem, and what should they record?

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

Describe in words how to place the old woman's eye so that it shares a contour with the young woman's ear. Include the level, the side, and the label you would write.

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 have a drawing with a 10-unit-tall young woman's oval and a 9-unit-tall old woman's oval offset 2 units down and 1 unit right. You want the old woman's chin to sit 1 unit below the young woman's chin. At what level should you place the old woman's chin, and is the vertical offset consistent?

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.

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Task 1 / practice

Dual-role CONSTRUCTION studies / authentic Hill observation is a separate reference

TASK 1 / On paper, draw a vertical axis and mark crown, eye line, and chin at 0, 5, and 10 units. Sketch one shared right contour from crown to chin and label it 'jaw / nose tip', noting the adjacent cheek line as the nose bridge. Add an ear/eye curve at eye level on the left side and label it. Add a necklace/mouth curve 1 unit below the chin and label it. Record your units.

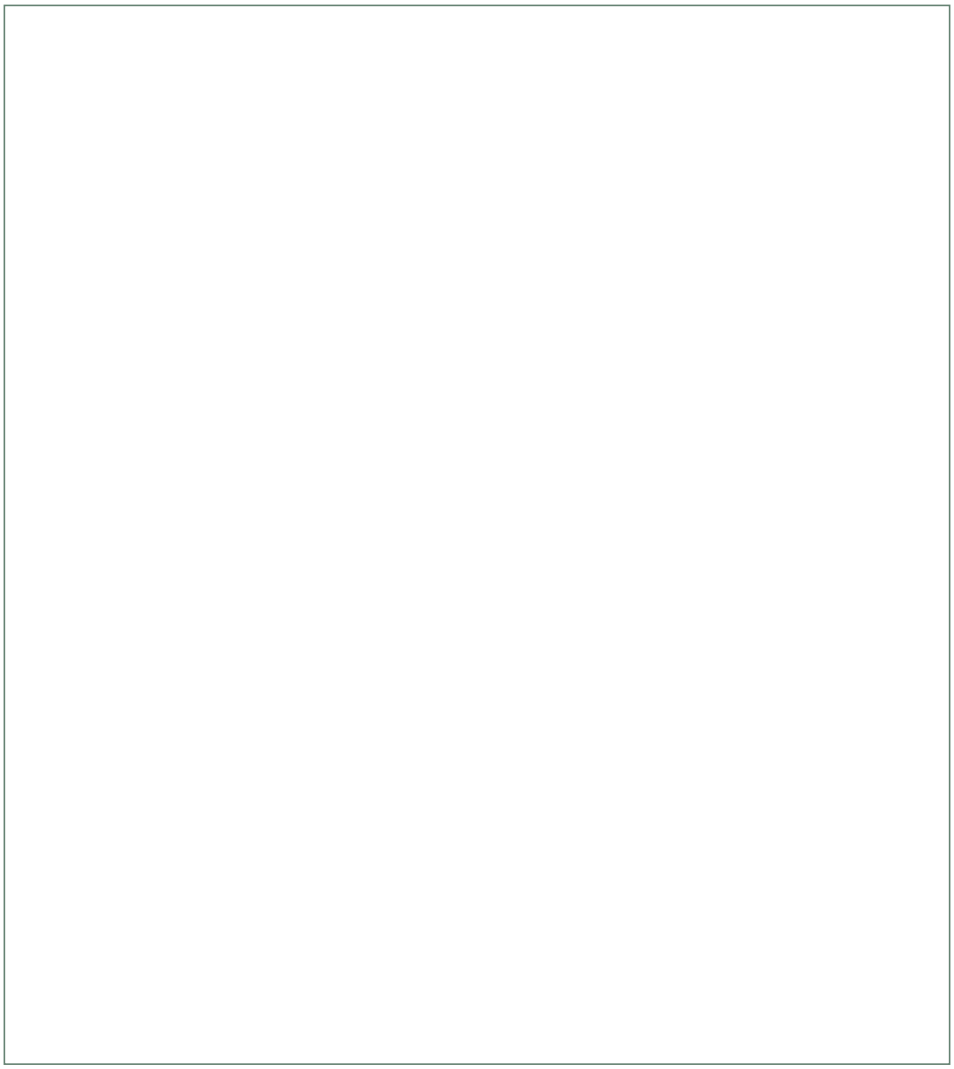


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Task 2 / practice

Dual-role CONSTRUCTION studies / authentic Hill observation is a separate reference

TASK 2 / A student's drawing flips only after twelve seconds at one meter. They adjust the jaw/nose-tip contour by increasing its curvature by 1 unit at the midpoint. The flip time drops to four seconds. Did the adjustment solve the problem, and what should they record?

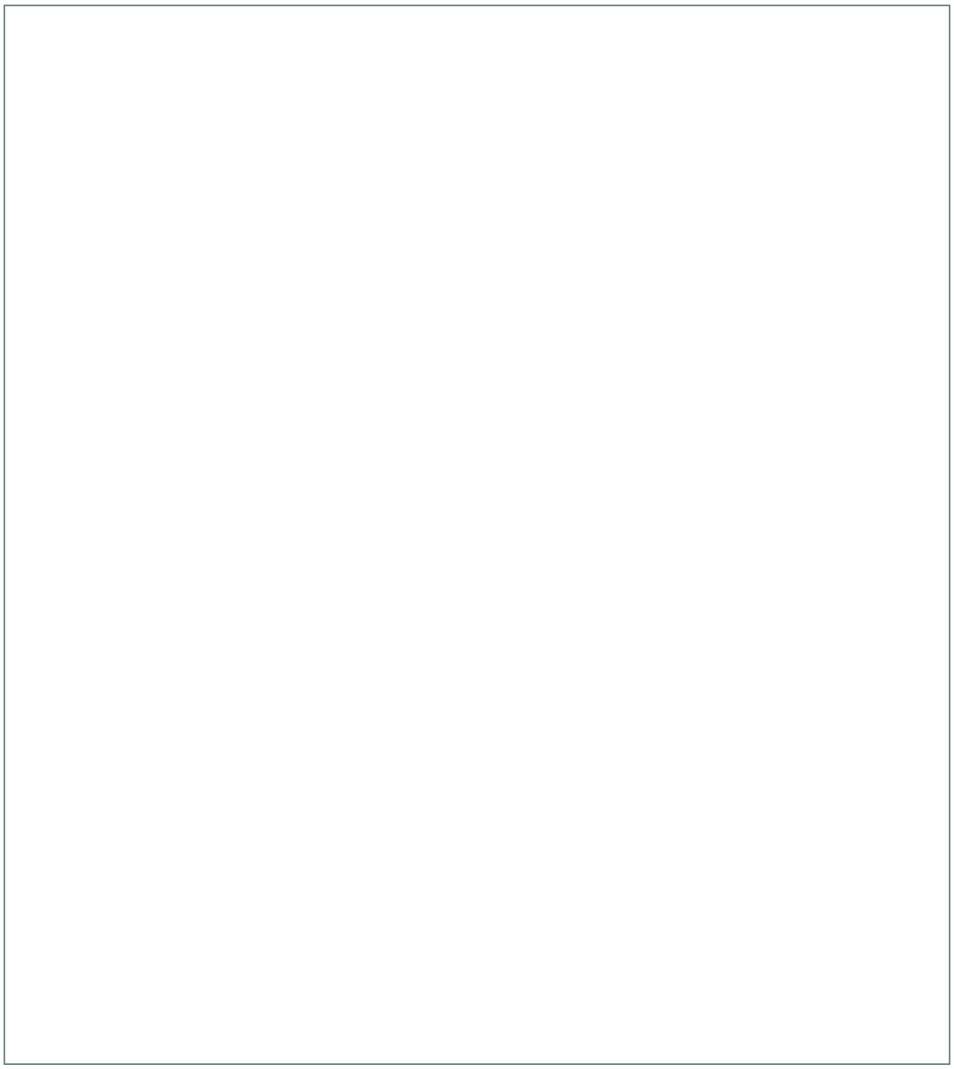


Draw the Young-Woman/Old-Woman Illusion: Shared Contours and Dual Readings

Task 3 / practice

Dual-role CONSTRUCTION studies / authentic Hill observation is a separate reference

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Task 4 / practice

Dual-role CONSTRUCTION studies / authentic Hill observation is a separate reference

TASK 4 / You have a drawing with a 10-unit-tall young woman's oval and a 9-unit-tall old woman's oval offset 2 units down and 1 unit right. You want the old woman's chin to sit 1 unit below the young woman's chin. At what level should you place the old woman's chin, and is the vertical offset consistent?

