Drawing Practice: Funnel Nose Type with Construction Variations

Original tasks 1, 2 / complete keys

Task 1

In a 10 cm by 10 cm box with origin at the top-left, x measured right and y downward, construct a front-view funnel nose with center line x=5 cm, wing-base guide y=6 cm, tip-center guide y=5 cm, and a 1.5 cm diameter tip circle centered at (5,5). Extend mirrored nostril wings 1 cm outward. List the steps and state one symmetry check.

Answer: Center line at 5 cm; wing-base guide at 6 cm; tip-center guide at 5 cm; tip circle centered at (5, 5) with 1.5 cm diameter, widest part on the tip-center guide and bottom edge at 5.75 cm; bridge lines from top to tip; mirrored nostril hooks starting at the lower sides of the tip circle (about 4.44 cm and 5.56 cm horizontally at 5.5 cm vertically), curving outward and down to the wing-base guide at 6 cm, ending about 1 cm beyond the tip circle's sides. Check: left and right distances from center line match within 2 mm.

Reason: The construction follows the three-part funnel structure: converging bridge, rounded tip at tip-center guide, and outward nostril wings ending at wing-base guide.

Check: Measure distances from the center line on both sides and confirm the tip is the widest part.

Task 2

In a 10 cm by 10 cm box with origin at the top-left, x measured right and y downward, start from a front-view construction with center line x=5 cm, a 1.5 cm tip circle centered at (5,5), and wing-base guide y=6 cm. Turn the nose to the right into a three-quarter view. Describe what changes in the center line, tip oval, and near and far nostril wings.

Answer: Tilt the upper part of the center line slightly to the right and shift the tip into a horizontal oval centered just right of x=5. Compress the oval's left (far) side; keep the right side fuller. Draw the right bridge line longer and the left bridge line shorter. Make the right (near) nostril hook larger and the left (far) hook smaller or partly hidden.

Reason: The prompt defines the starting front-view guides. Turning the nose to the right is shown by compressing the far side and revealing more of the near side while keeping the bridge-tip-wing construction.

Check: Confirm the tip oval shifts slightly right, the left/far side is compressed, the right/near bridge and nostril wing are more visible, and the three-part structure remains clear.

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Original tasks 3, 4 / complete keys

Task 3

In a 10 cm by 10 cm box with origin at the top-left, x measured right and y downward, draw a profile-view nose facing right. Curve the bridge from near (4,0) to a rounded tip centered near (8,6); add one nostril hook under the tip curving left, back toward the face. State one check.

Answer: Draw the curved bridge from near (4,0) to a rounded tip centered near (8,6). Add one hook below the tip that curves left toward the face. Check that the tip is the furthest forward point and that the hook begins under the tip.

Reason: The prompt sets the viewing direction and approximate bridge and tip positions, so the profile can be drawn without a missing reference image. The single hook identifies the underside of the tip in this stylized construction.

Check: Trace from bridge to tip and then to the hook. Confirm the tip projects farthest right and the hook lies below it, curving back left.

Task 4

A student draws a front-view funnel nose with a straight vertical bridge, nostril wings attached halfway up the bridge, and a tip smaller than the bridge base. Identify two mistakes and give a fix for each.

Answer: Mistake 1: straight vertical bridge. Fix: draw two converging lines that narrow toward the top. Mistake 2: nostril wings attached halfway up the bridge. Fix: attach nostril hooks to the sides of the tip circle and end them at the wing-base guide. Also widen the tip so it is the widest part.

Reason: The funnel structure requires a converging bridge, a tip that is the widest part, and nostril wings that flare from the tip.

Check: Check that the bridge converges, the tip is widest, and the nostril hooks start at the tip.

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Source rubric / reflection

- [ ] Bridge is drawn as a converging wedge, not a straight line.
- [ ] Tip is a circle or oval and is the widest part of the nose.
- [ ] Nostril wings start at the tip and flare outward to the wing-base guide.
- [ ] Front view is symmetrical within the chosen tolerance.
- [ ] Angled views show compressed far side and larger near nostril wing.
- [ ] Three-part structure (bridge, tip, nostrils) is clearly readable.
- [ ] Valid stylistic alternatives are accepted if the funnel structure is clear.

Reflection: What did you check, what did you change, and what will you try next?