

Santa's Sleigh

Tools Used: Jig Saw, Drill, Sander, brad nailer

Materials used:

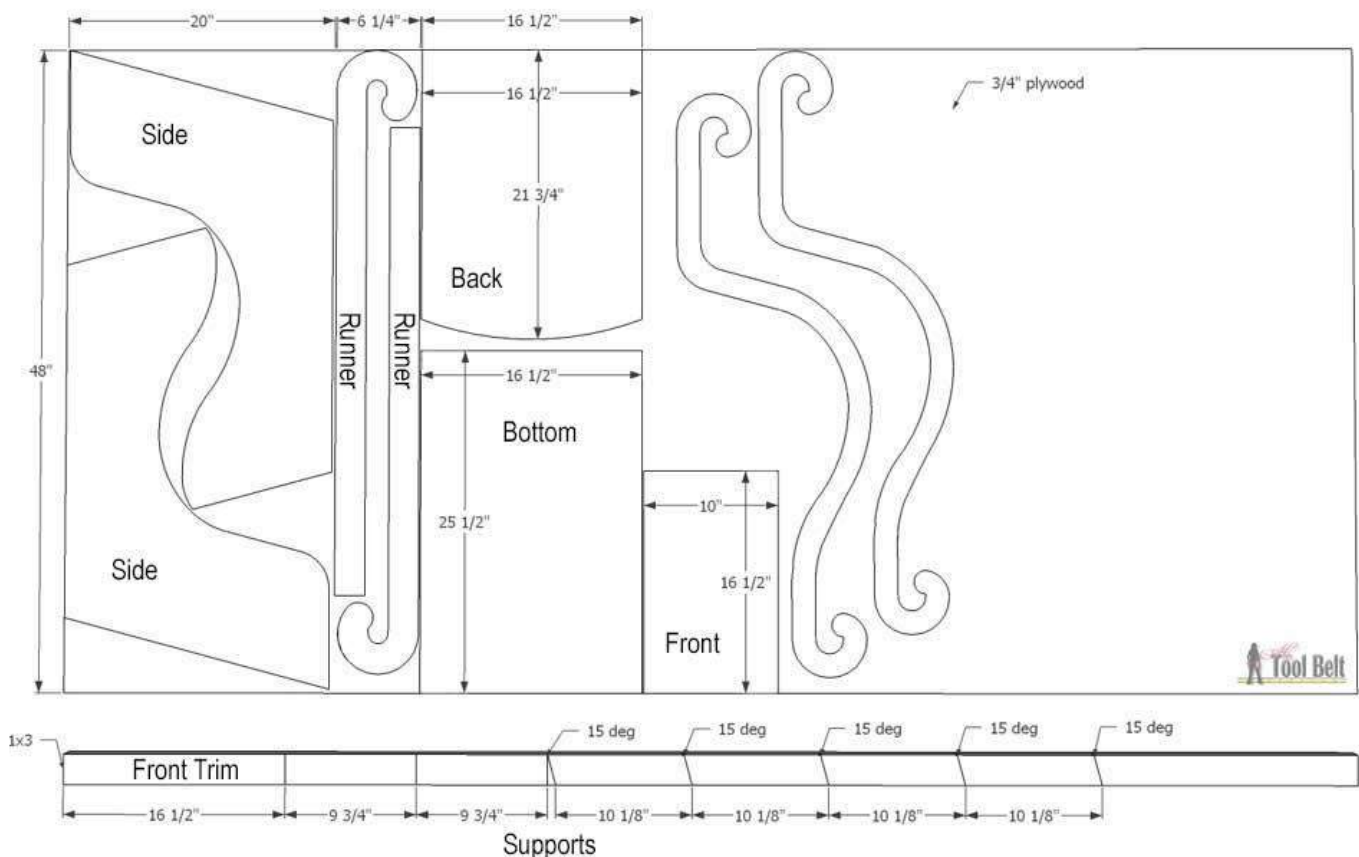
- 1 sheet $\frac{3}{4}$ " plywood
- 1-1x3, wood glue
- 1 $\frac{1}{4}$ " screws
- Sandpaper
- Primer
- paint



Step 1: Print sleigh pattern (10 papers). Use guide marks to line up and tape together sleigh pattern. Cut out the sleigh pattern.

Step 2: Cut Diagram (if you need to have your plywood sheet cut for transportation, cut it at 20" x 48", 6 $\frac{1}{4}$ " x 48", and 16 $\frac{1}{2}$ " x 48".)

Cut the 1x3: 1 – 16 $\frac{1}{2}$ ", 2 – 9 $\frac{3}{4}$ ", and 4 – 10 $\frac{1}{8}$ " with 15 deg miter cut on each end.



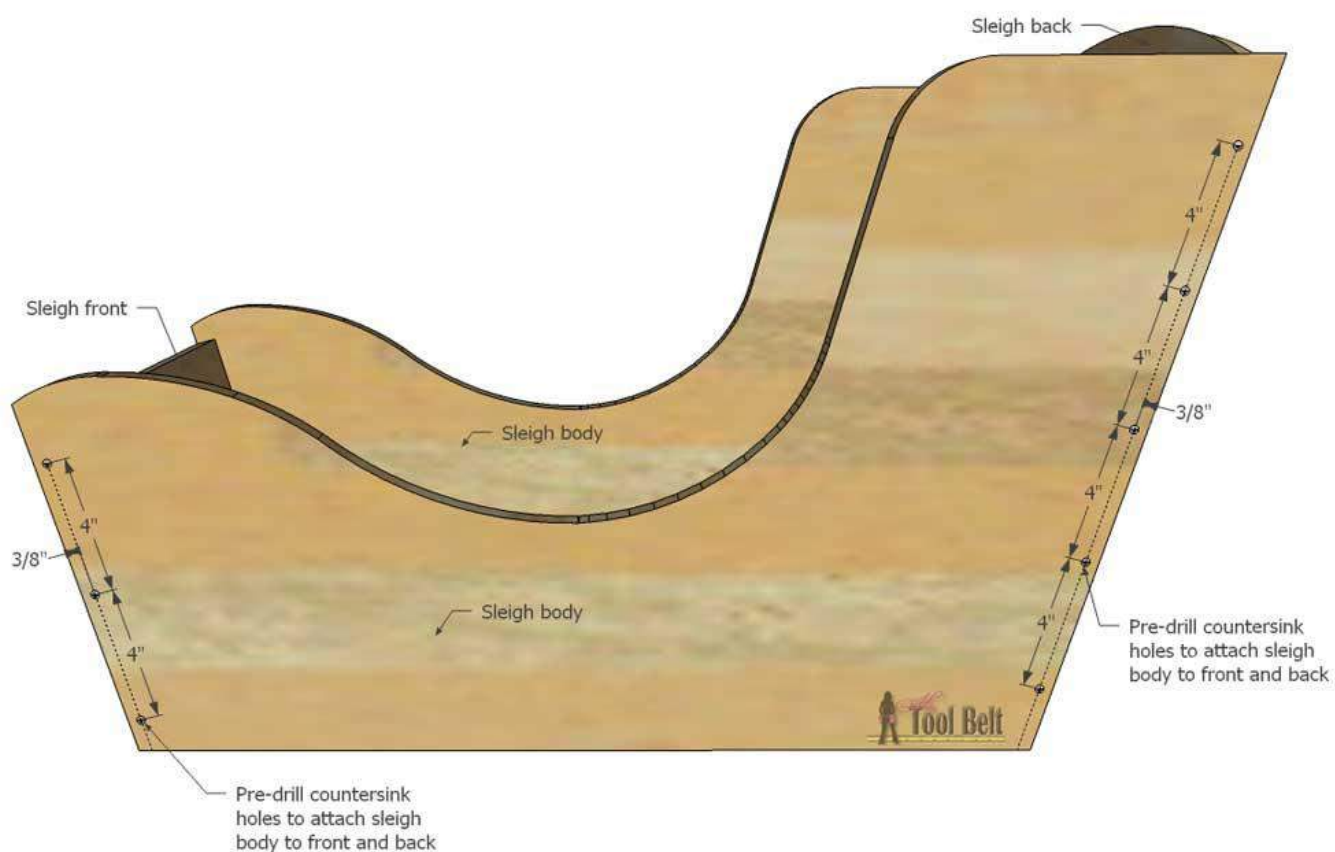
Step 3: Trace the patterns onto the sheet of plywood. Trace 2 sleigh bodies (gray portion of pattern), 2 sleigh runners, 2 sleigh trim, 1 sleigh back. Also cut 1 front 16 1/2" x 10" and 1 bottom 16 1/2" x 25 1/2".



Step 4: Cut out the plywood sleigh pieces with a jig saw. Sand the sleigh pieces as necessary.



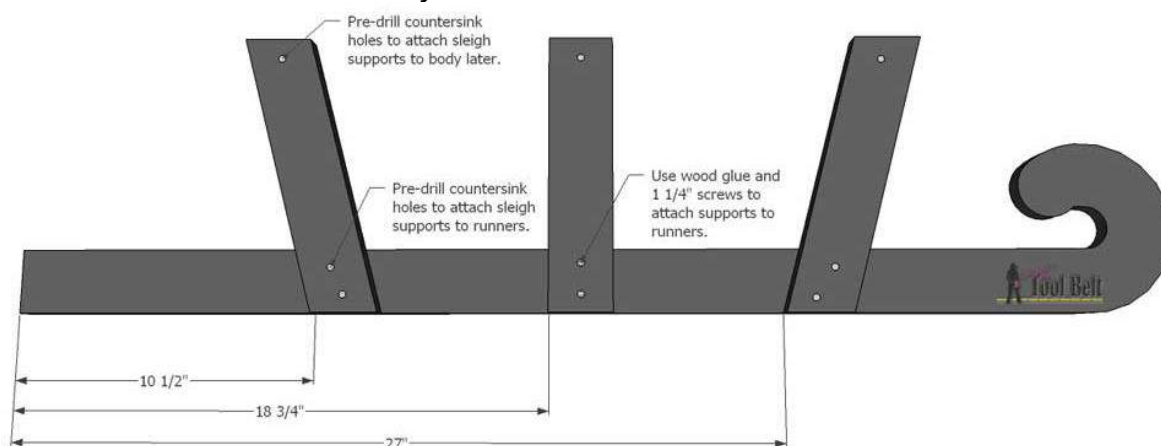
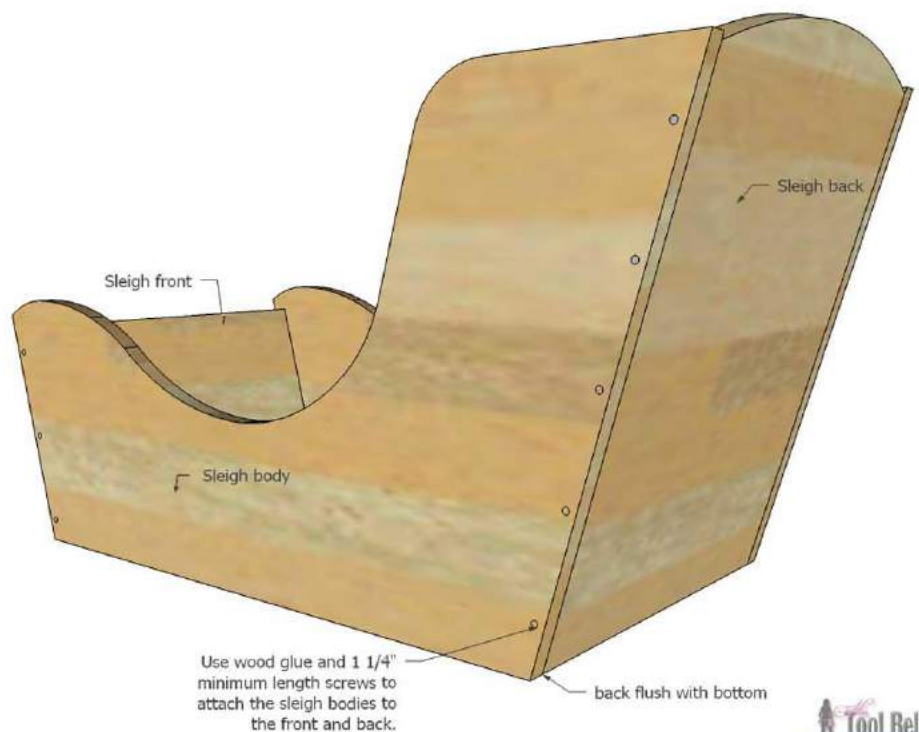
Step 5: Countersink holes – Mark approximately 3/8" from the front and back sides of the sleigh bodies. Pre-drill countersink holes approximately every 4" to attach the front and back pieces. Repeat for both bodies, remember they mirror each other.



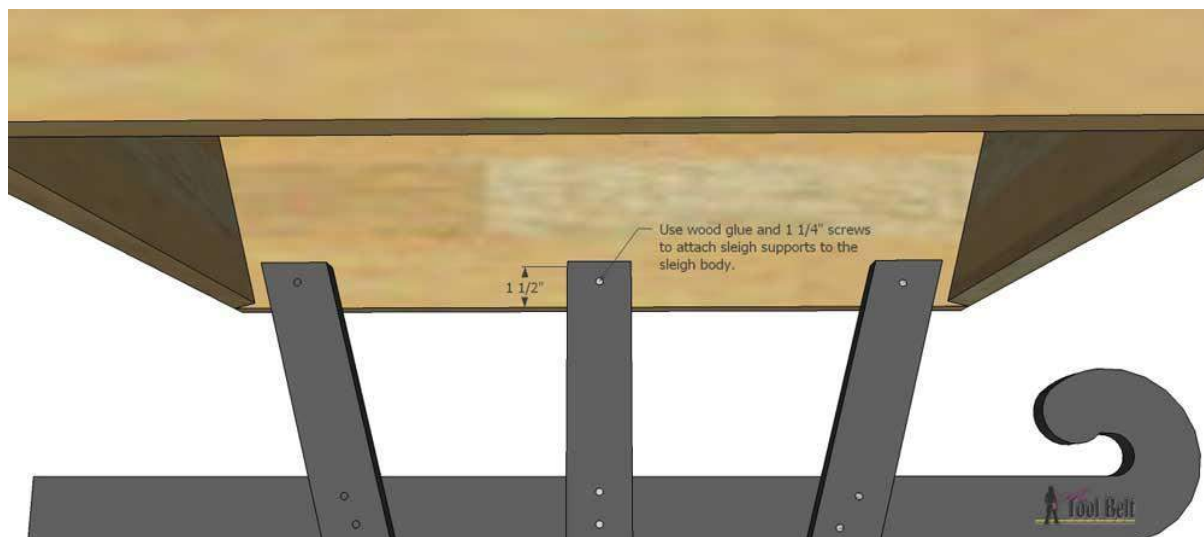
Step 6: Assemble body – Use wood glue and 1 1/4" screws to attach the sleigh bodies to the front and back pieces. The front and back pieces should be flush with the bottom of the sleigh bodies.

Note: I painted the sleigh body and various pieces at this point.

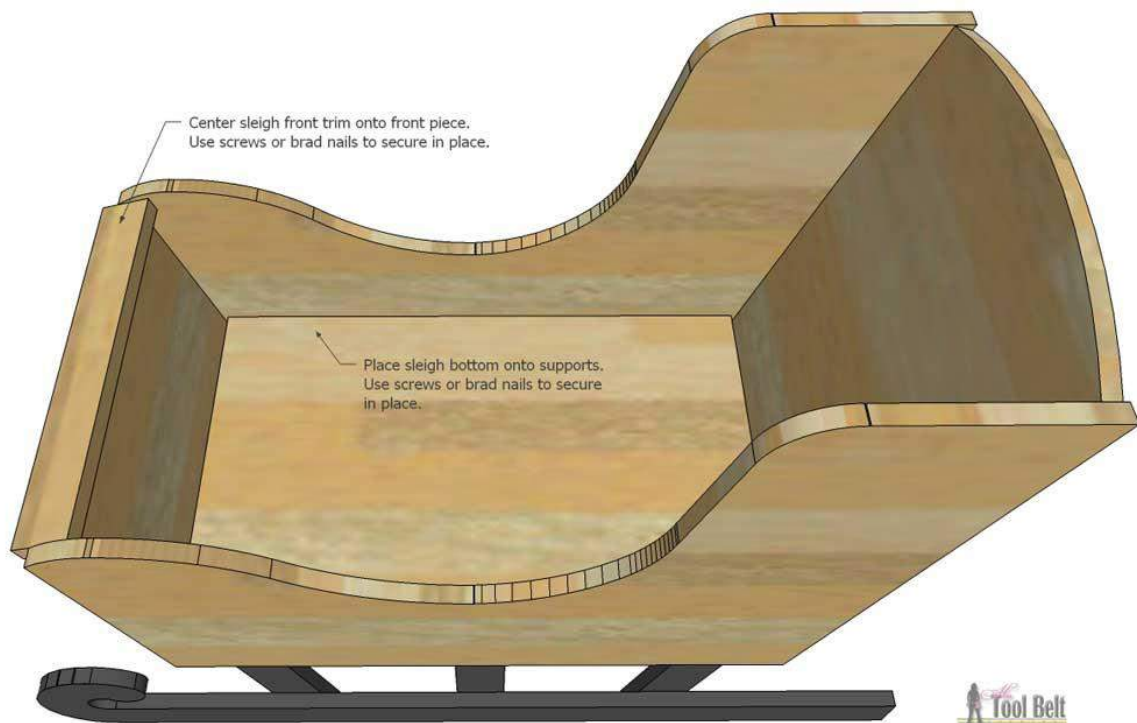
Step 7: Assemble runners – Mark over about 10 1/2", 18 3/4", and 27" from the end of the sleigh runner to attach the supports. Pre-drill countersink holes to attach sleigh supports to runners, and to attach supports to sleigh bodies later. Use wood glue and 1 1/4" screws to attach supports to runners. Repeat for both runners, remember they mirror each other.



Step 8: Attach runners to body – Mark about 1 1/2" from the bottom of the sleigh body to attach runner supports. Use wood glue and 1 1/4" screws to attach sleigh supports to the sleigh body. Repeat for other sleigh runner.



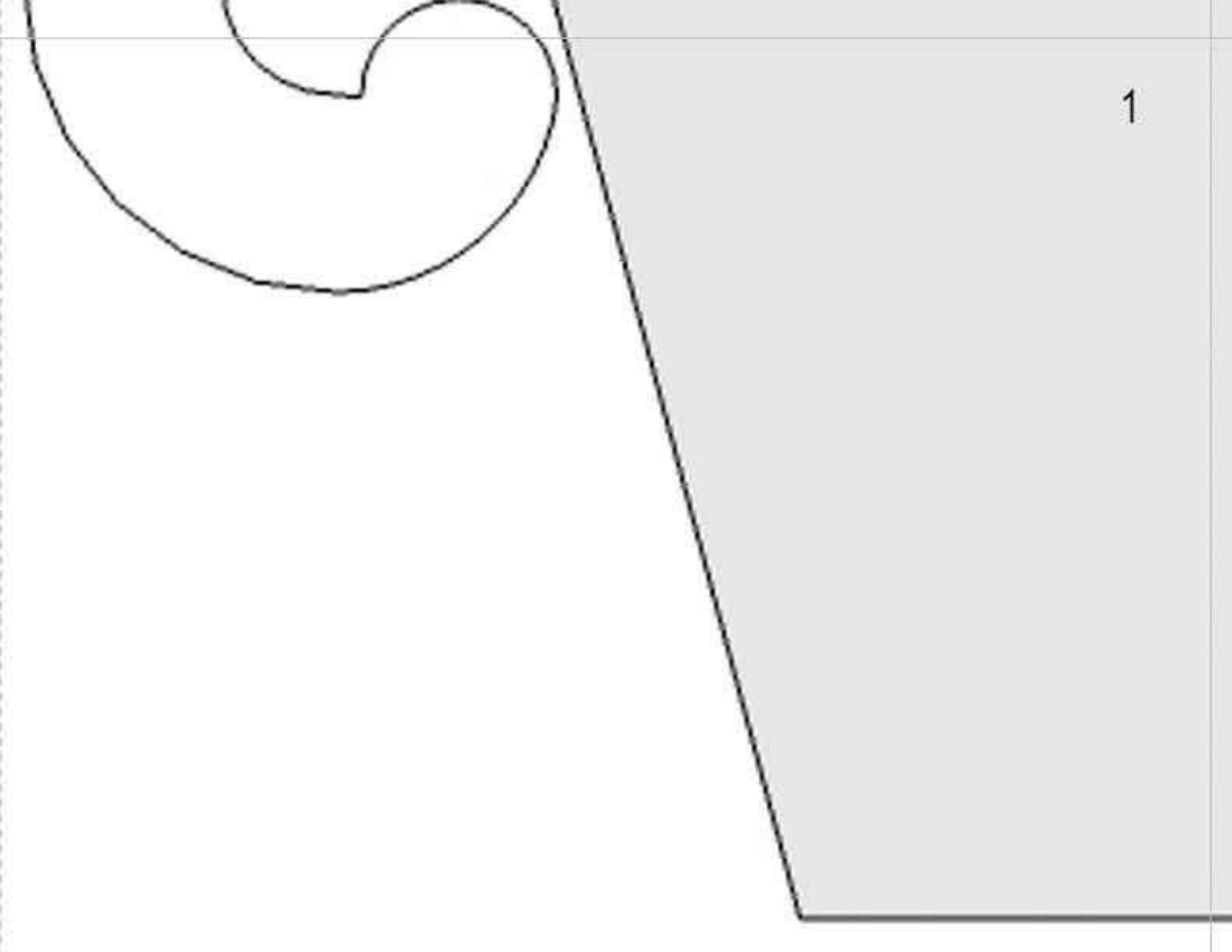
Step 9: Attach bottom and trim – Place sleigh bottom onto the supports. Use screws or brad nails to secure bottom into place. Center front trim piece on sleigh front piece and secure with brad nails or screws.

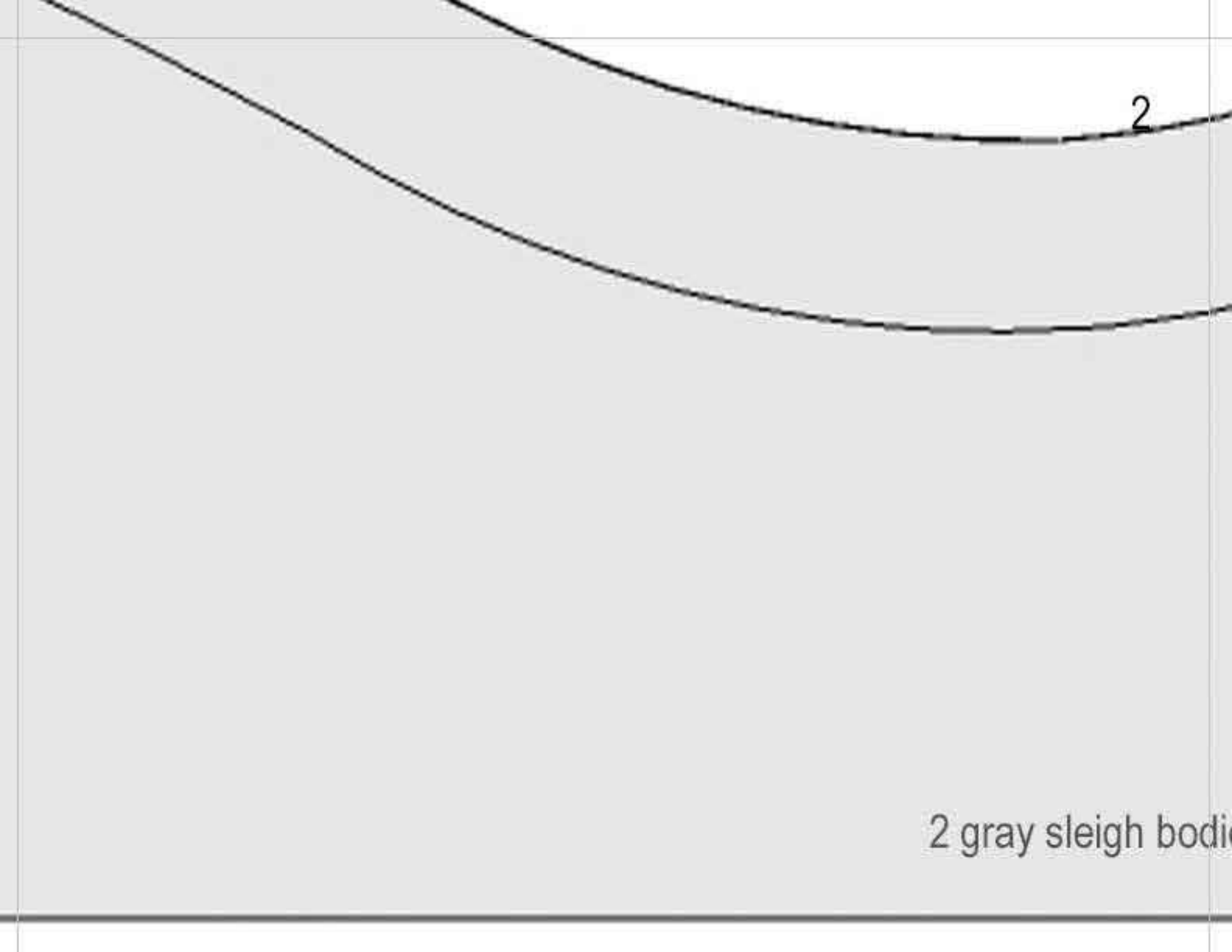


Step 10: Attach the remaining sleigh trim pieces to the sleigh body with wood glue and brad nails.



Step 11: Add accessories and décor to your sleigh.





2

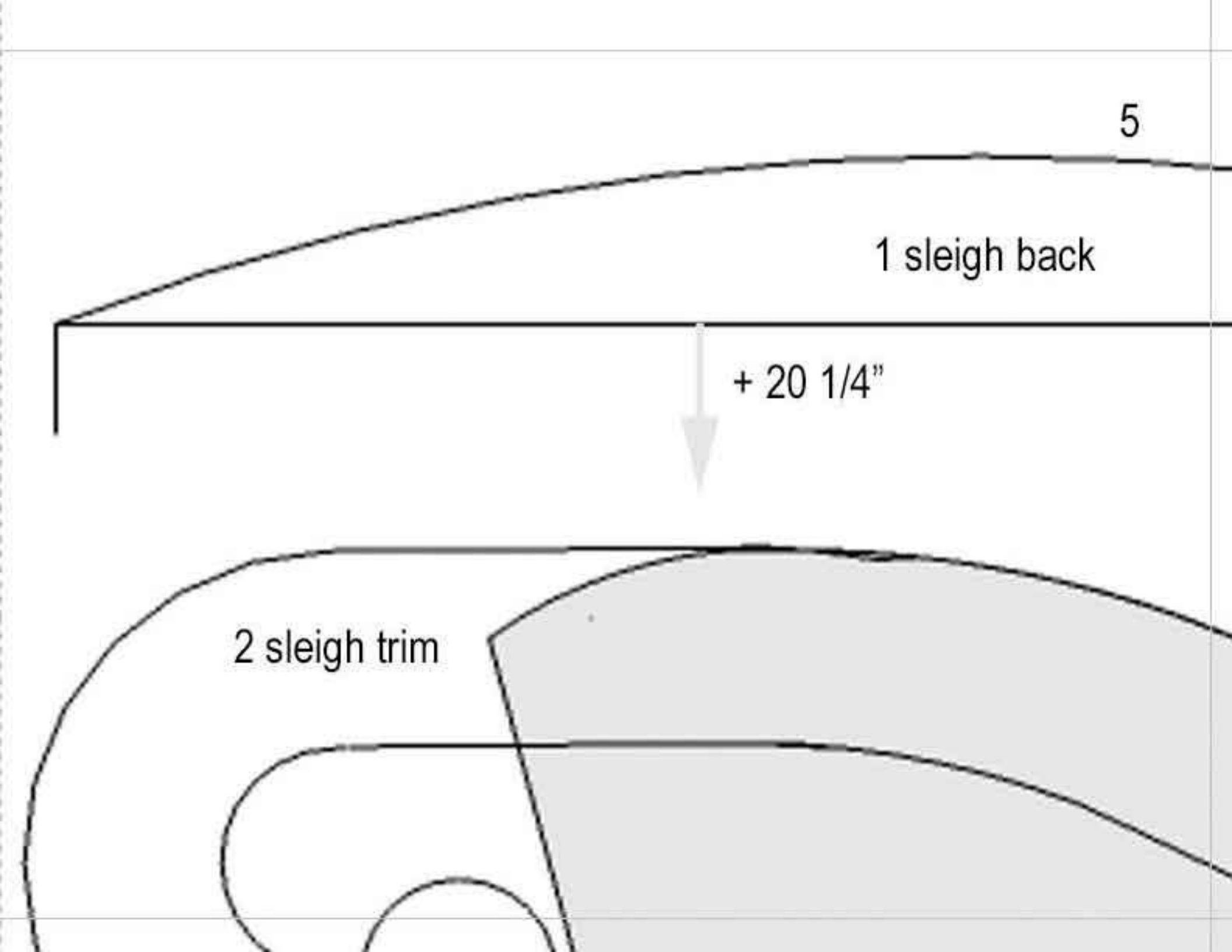
2 gray sleigh bodies

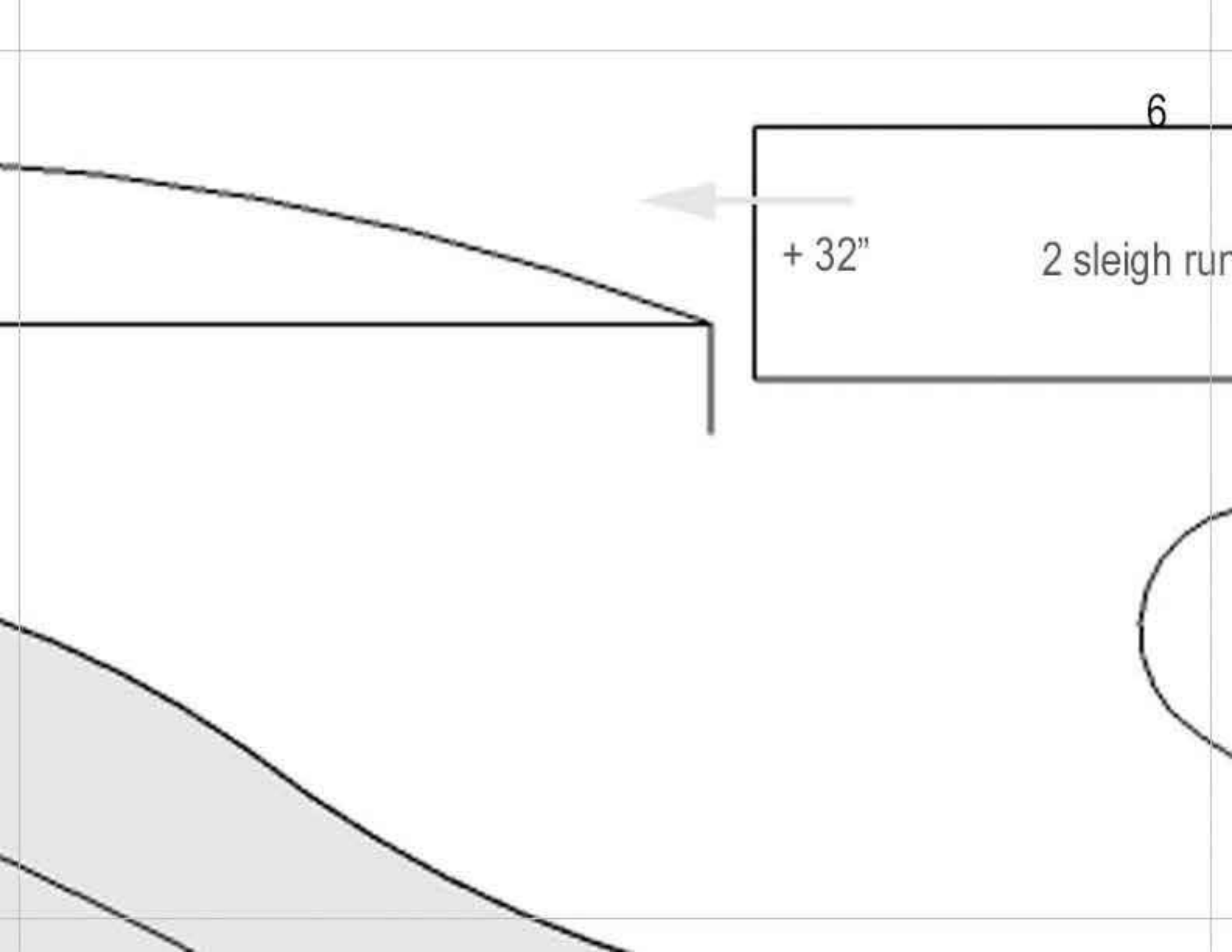
5

1 sleigh back

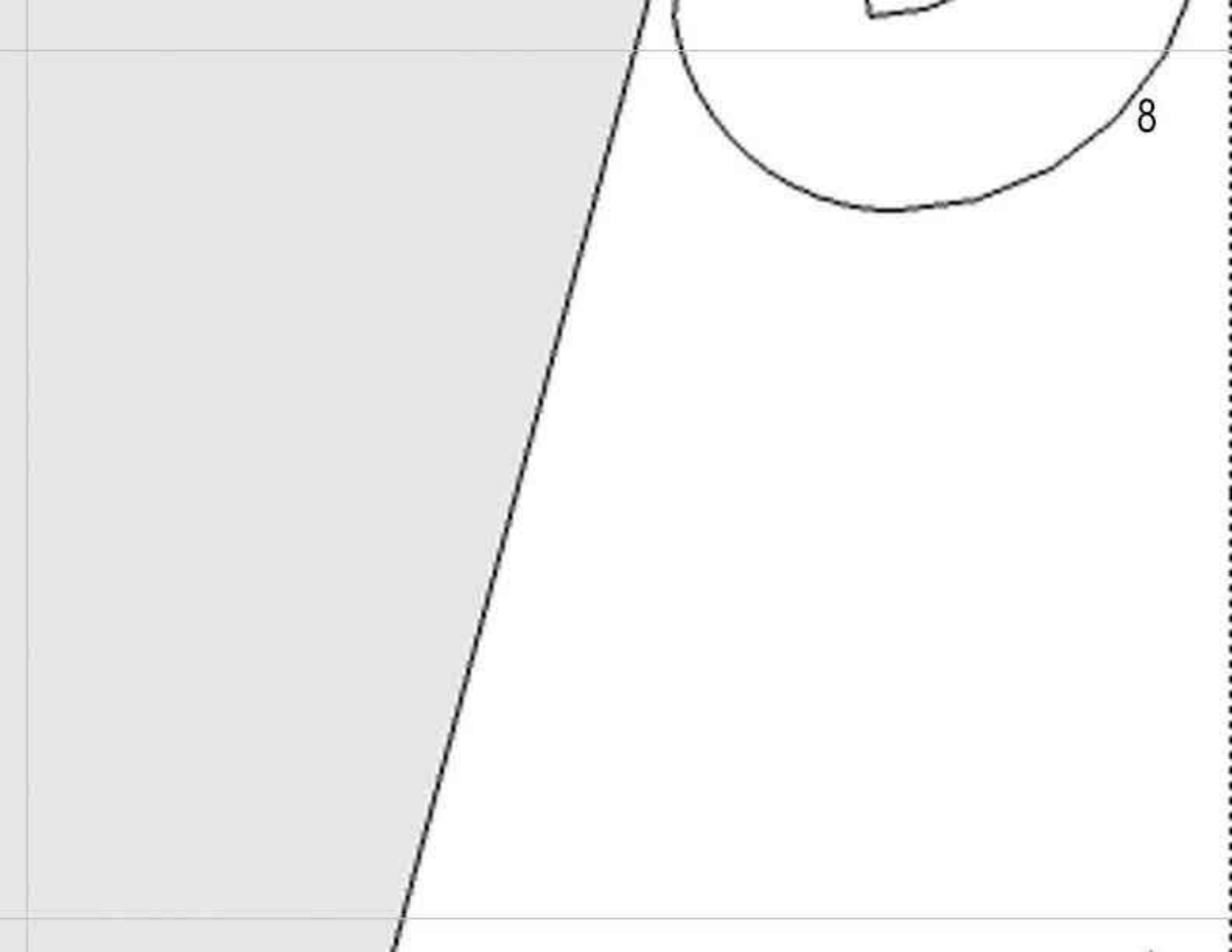
+ 20 1/4"

2 sleigh trim





runners



The diagram features a light gray shaded region on the left side, bounded by a vertical line and a diagonal line. To the right of this region is a large white area. A curved line, resembling a parabola opening upwards, is drawn in the upper right portion of the white area. The number '8' is placed near the right end of this curve. A vertical dashed line runs along the far right edge of the diagram.

8

9

7

