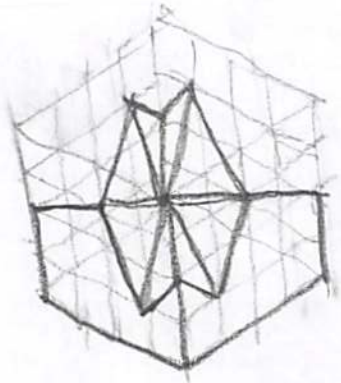
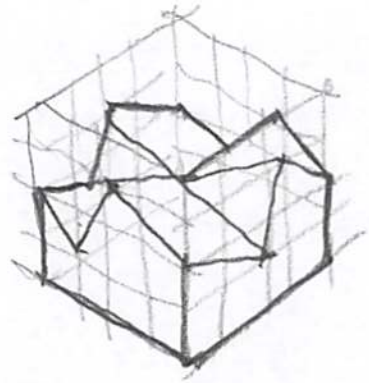


TROGU



15 CUBE ISOMETRIC

TUE. MARCH 10, 2020

DES220 – INTRO TO DRAWING

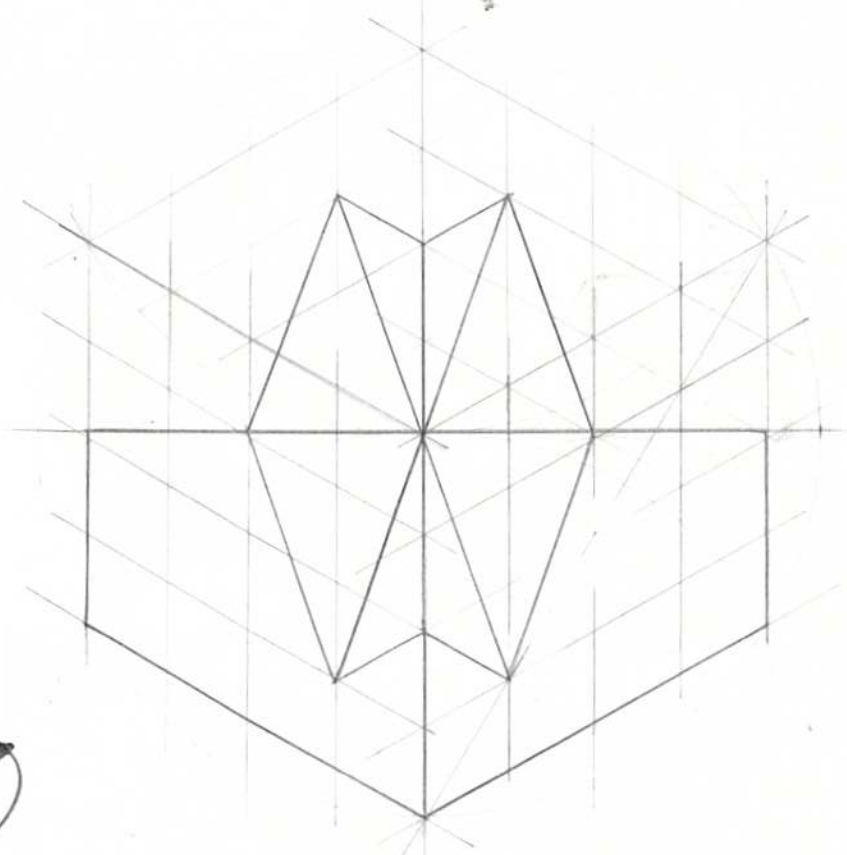
SFSU

Pino Trogu – Companion PDF to Zoom video (two meetings), recorded in San Francisco on March 10, 2020

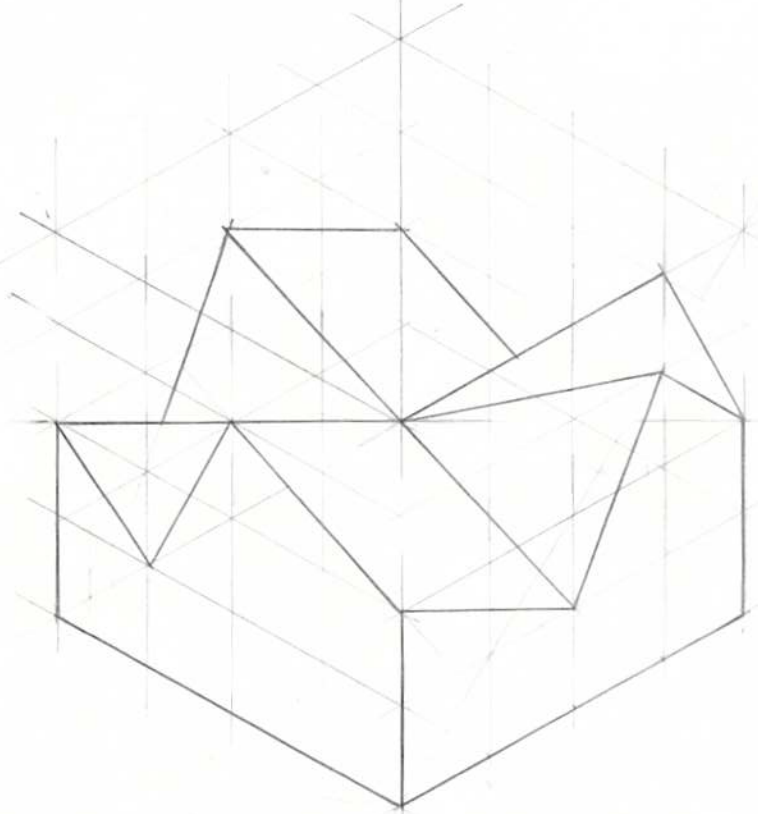
Click the box for Session 1 (morning) or Session 2 Afternoon

BORDER

The finished drawing has two views of your sectioned cube seen in isometric projection.



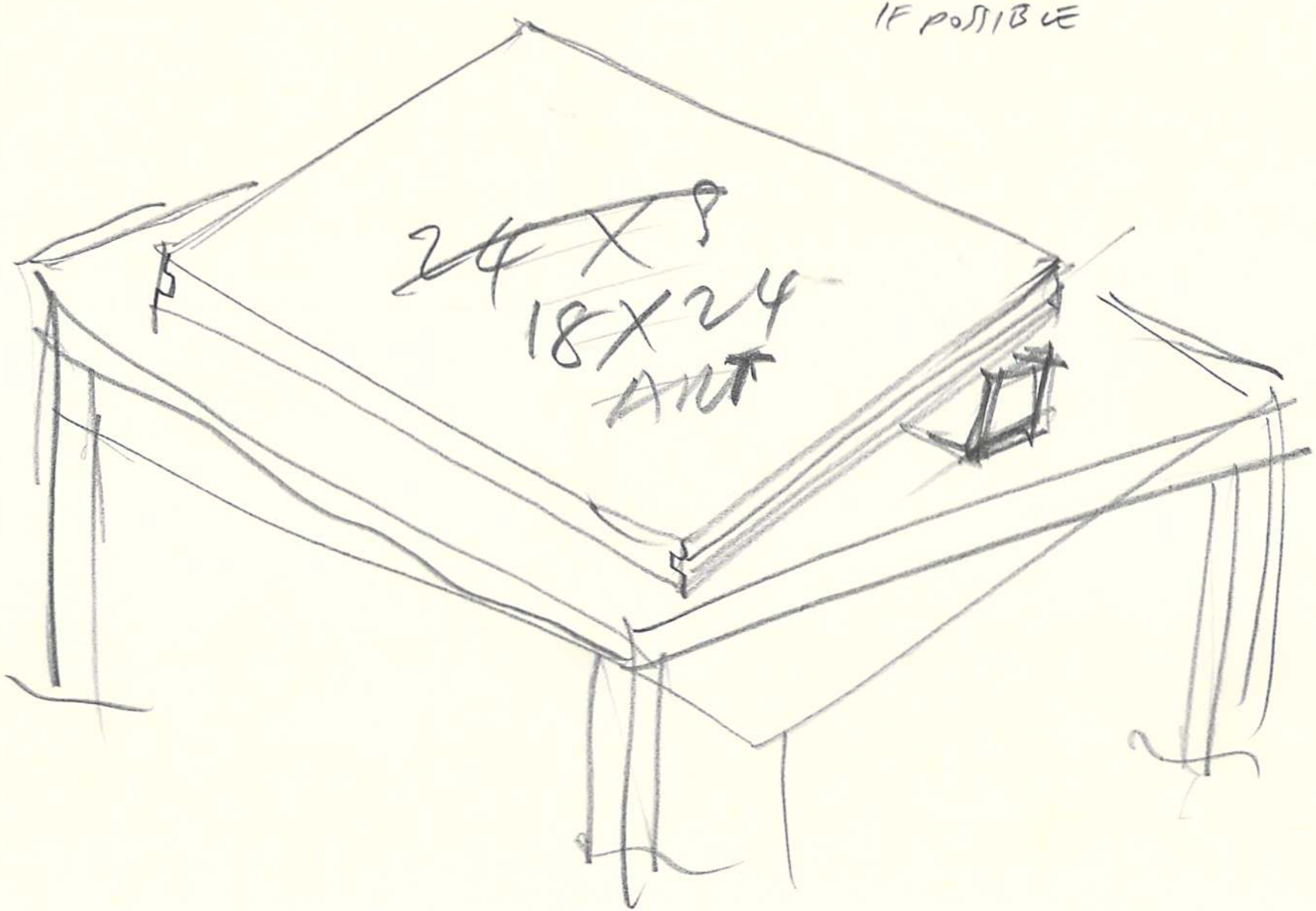
Symmetrical view (bilateral or "mirror-image" symmetry).



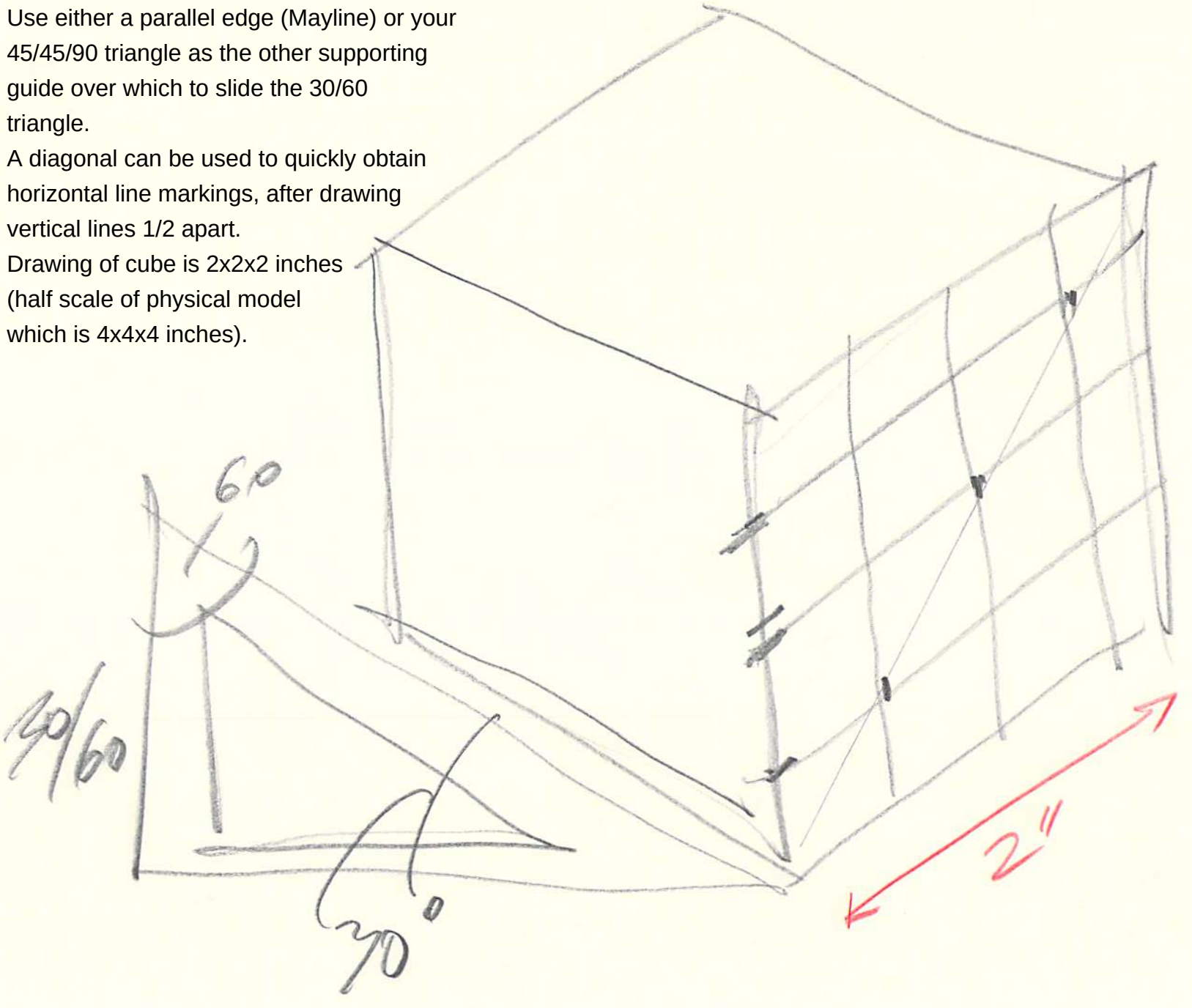
Asymmetrical view

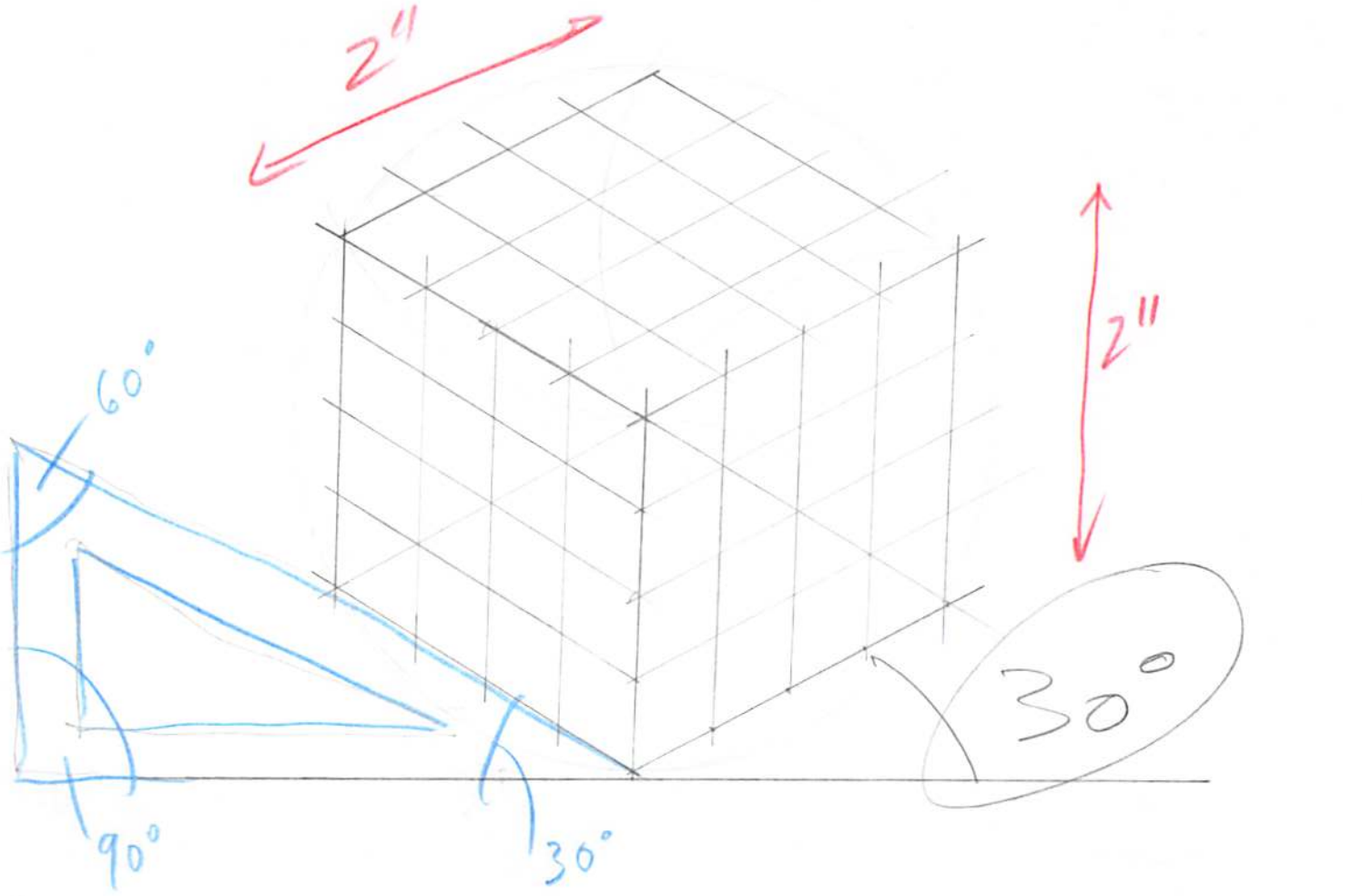
Cubes are placed 5 inches apart; centered also top/bottom inside the drawing area.

You can start the drawing by drawing two circles with radius = 2 inches (the cubes will fit inside these circles.)


GET ART BOARD TO
WORK AT HOME
IF POSSIBLE
18X24
ART

Use your 30/60/90 triangle to do most of this drawing.
Use either a parallel edge (Mayline) or your 45/45/90 triangle as the other supporting guide over which to slide the 30/60 triangle.
A diagonal can be used to quickly obtain horizontal line markings, after drawing vertical lines 1/2 apart.
Drawing of cube is 2x2x2 inches (half scale of physical model which is 4x4x4 inches).

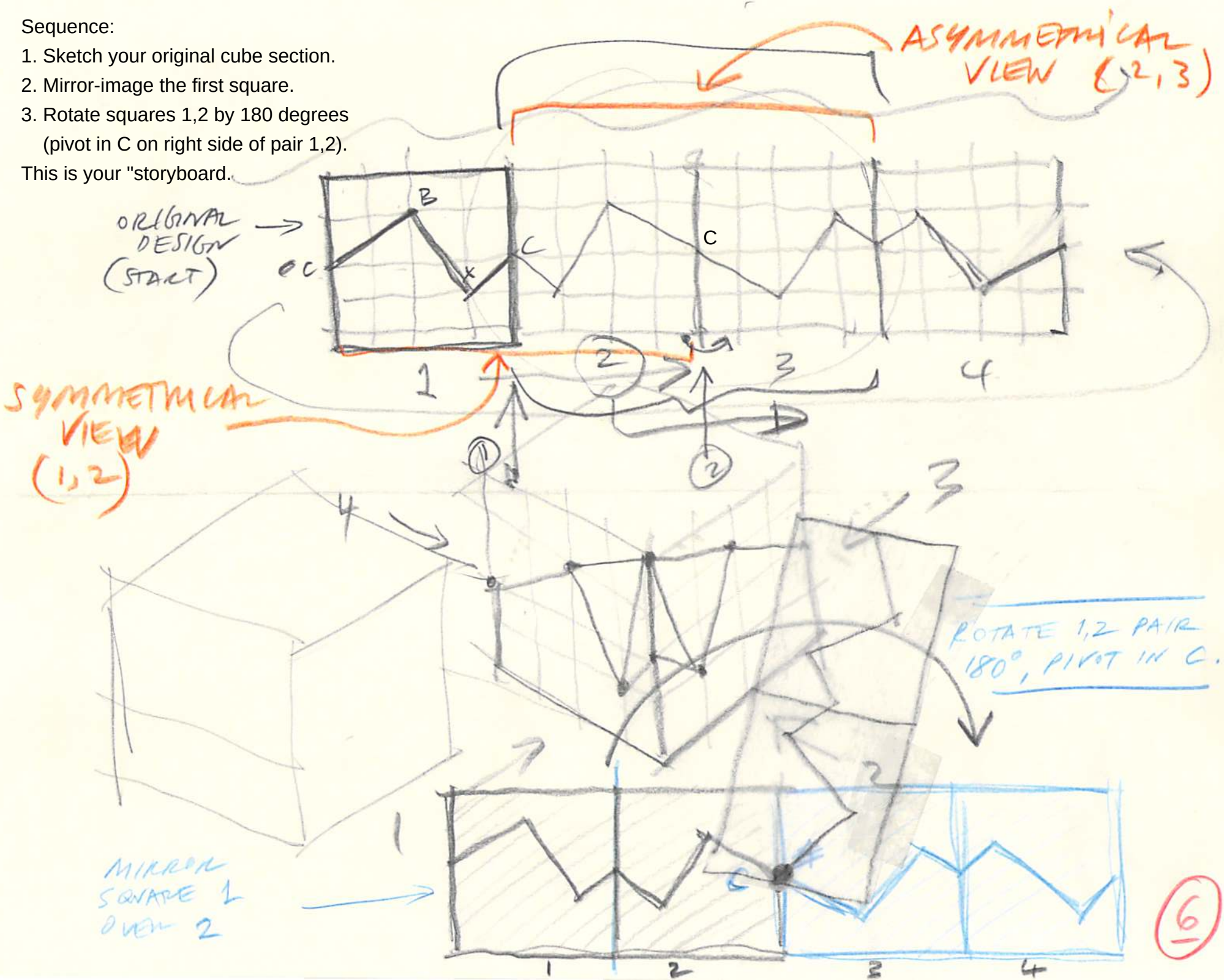



2"
2"
60°
30°
90°
30°

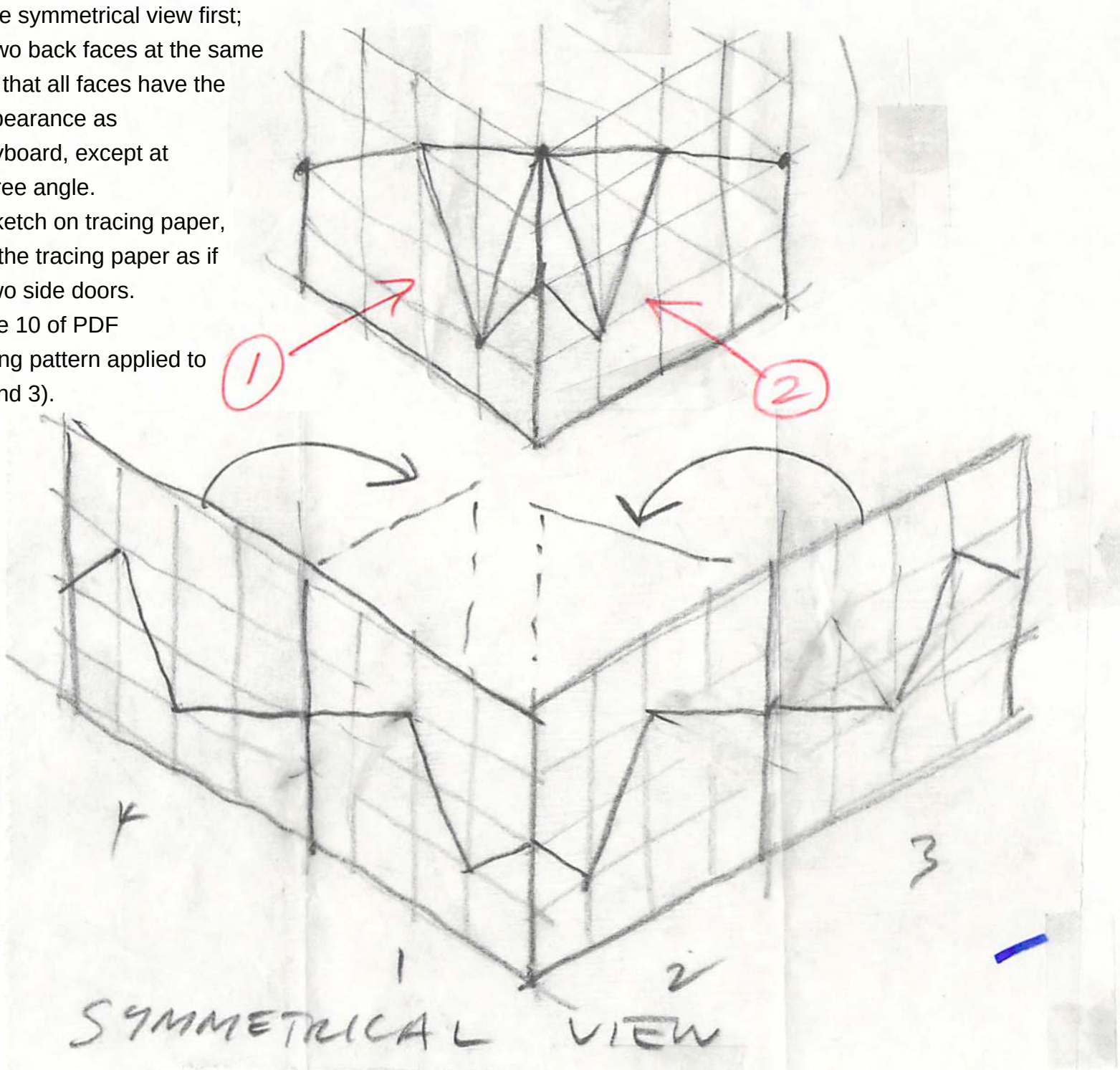
Sequence:

1. Sketch your original cube section.
2. Mirror-image the first square.
3. Rotate squares 1,2 by 180 degrees
   (pivot in C on right side of pair 1,2).

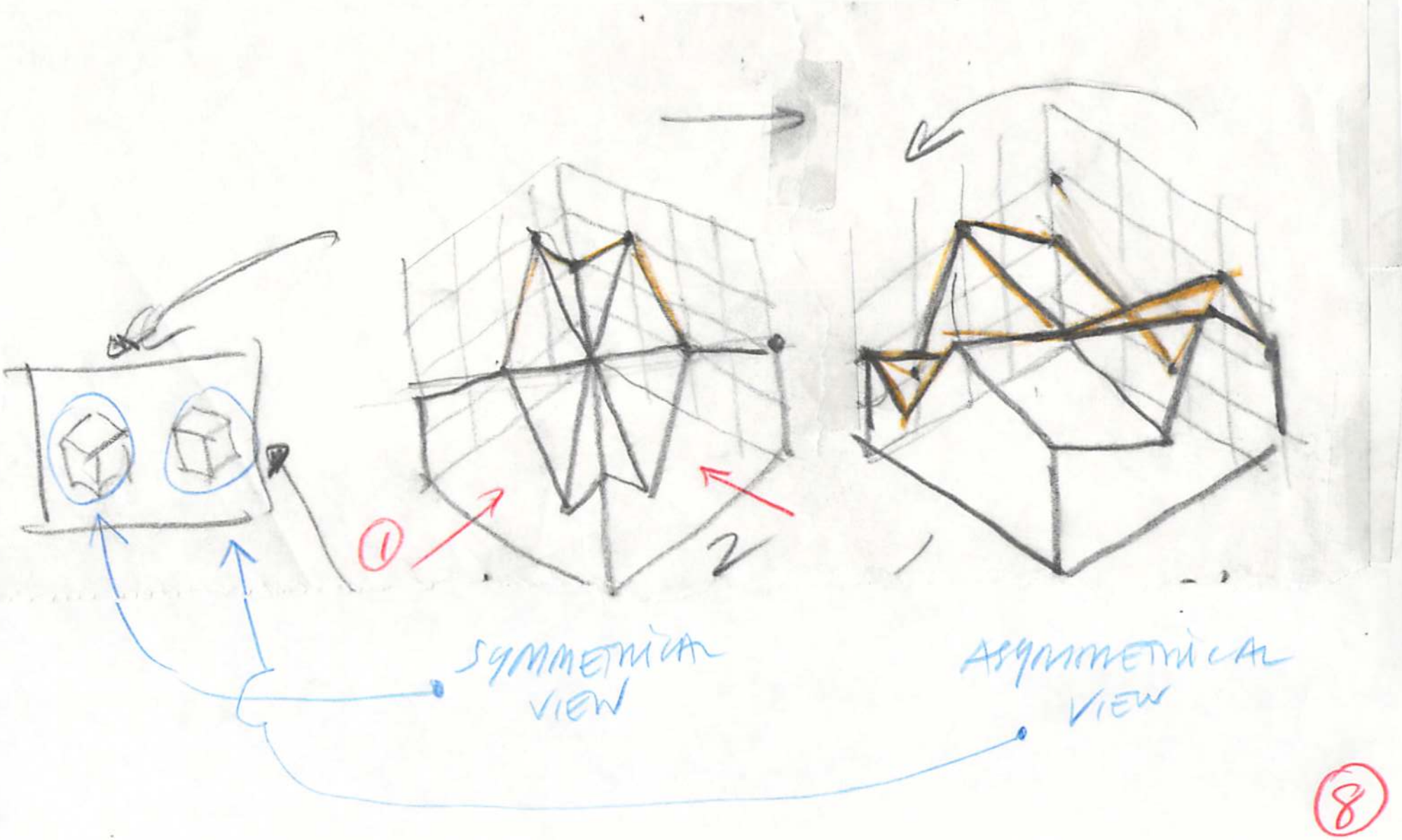
This is your "storyboard.



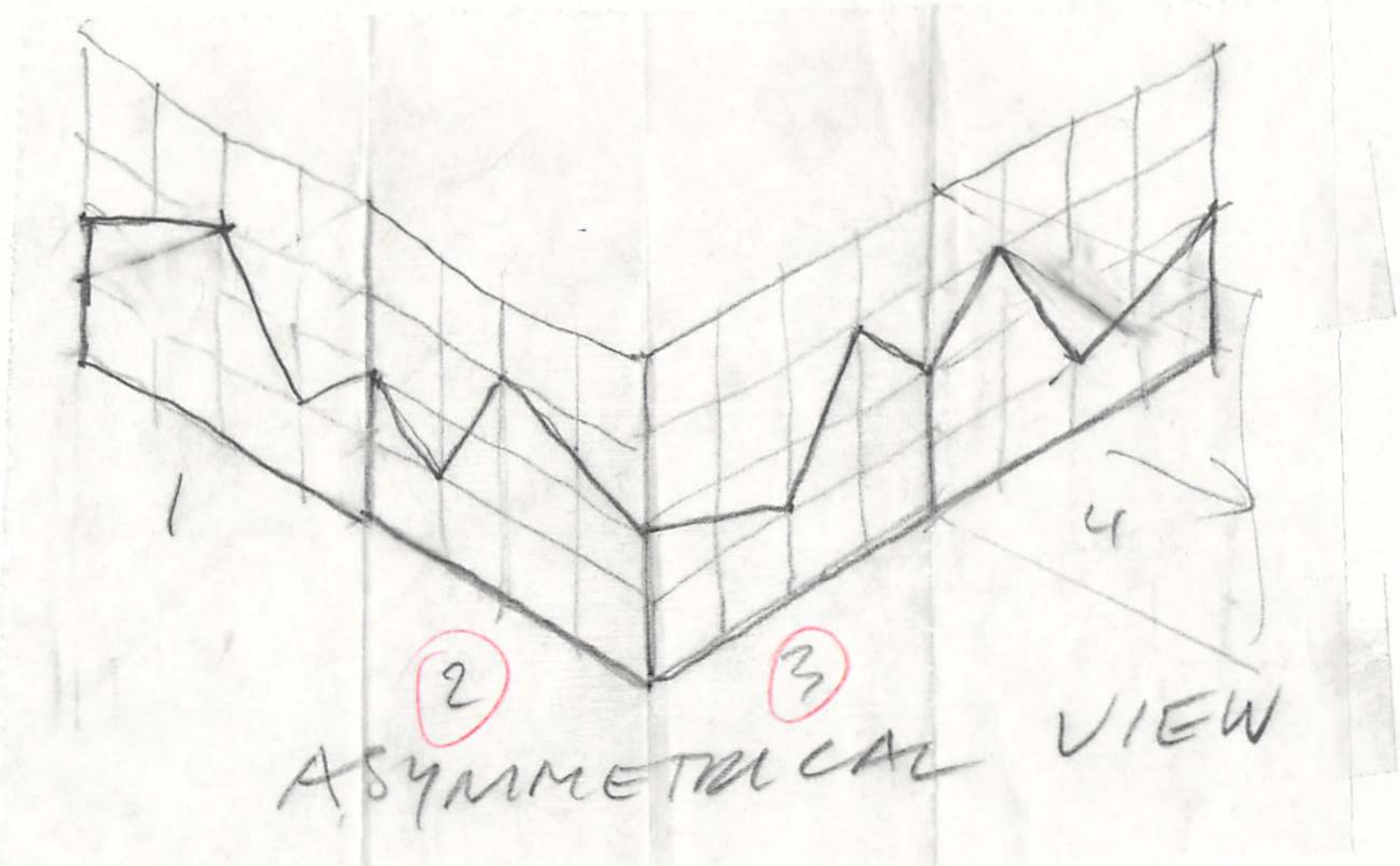
Sketch the symmetrical view first;
add the two back faces at the same
angle, so that all faces have the
same appearance as
your storyboard, except at
a 30-degree angle.
Do this sketch on tracing paper,
then fold the tracing paper as if
closing two side doors.
(See page 10 of PDF
for resulting pattern applied to
faces 2 and 3).



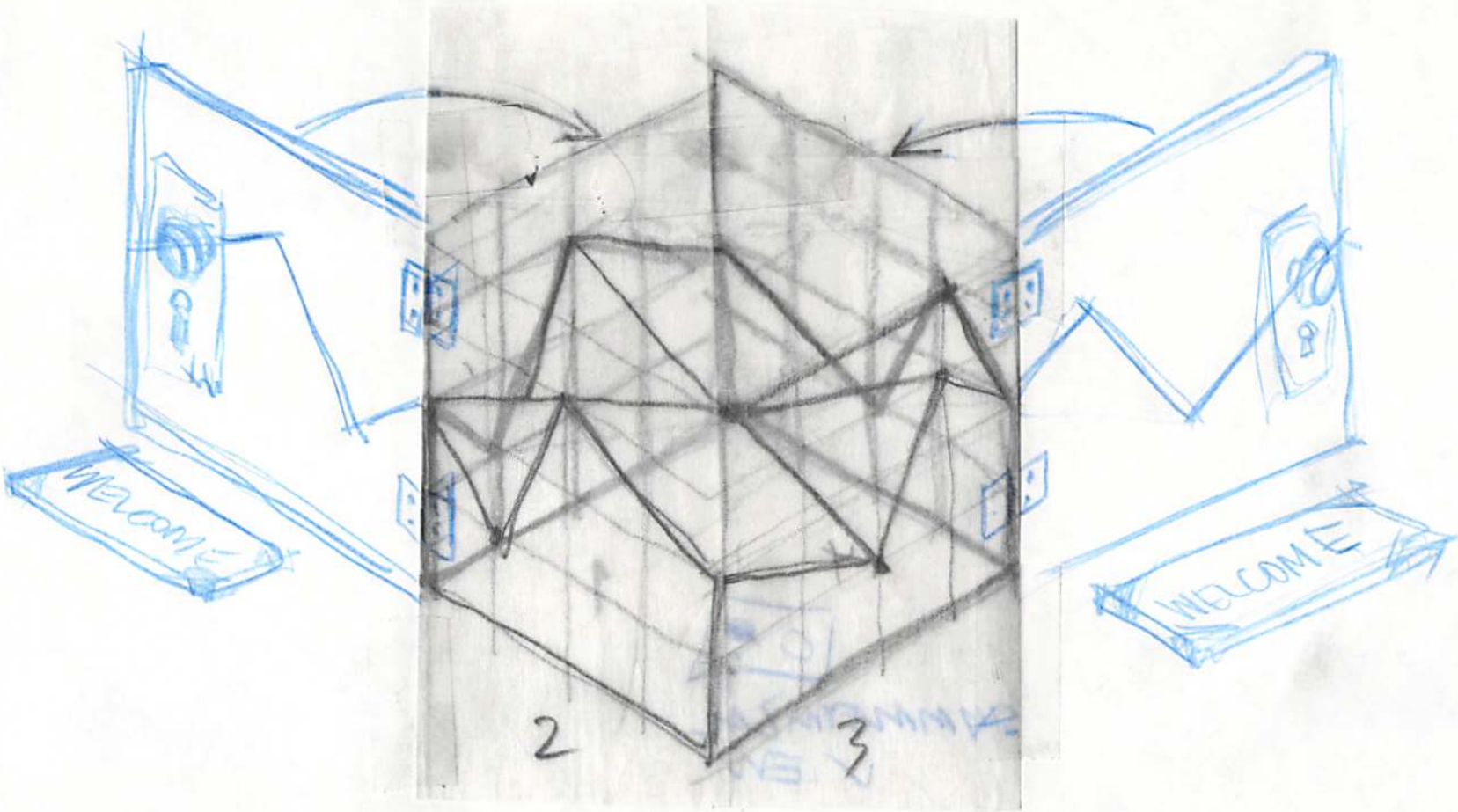
In the final drawing, place the symmetrical view on the left
and the asymmetrical view on the right.



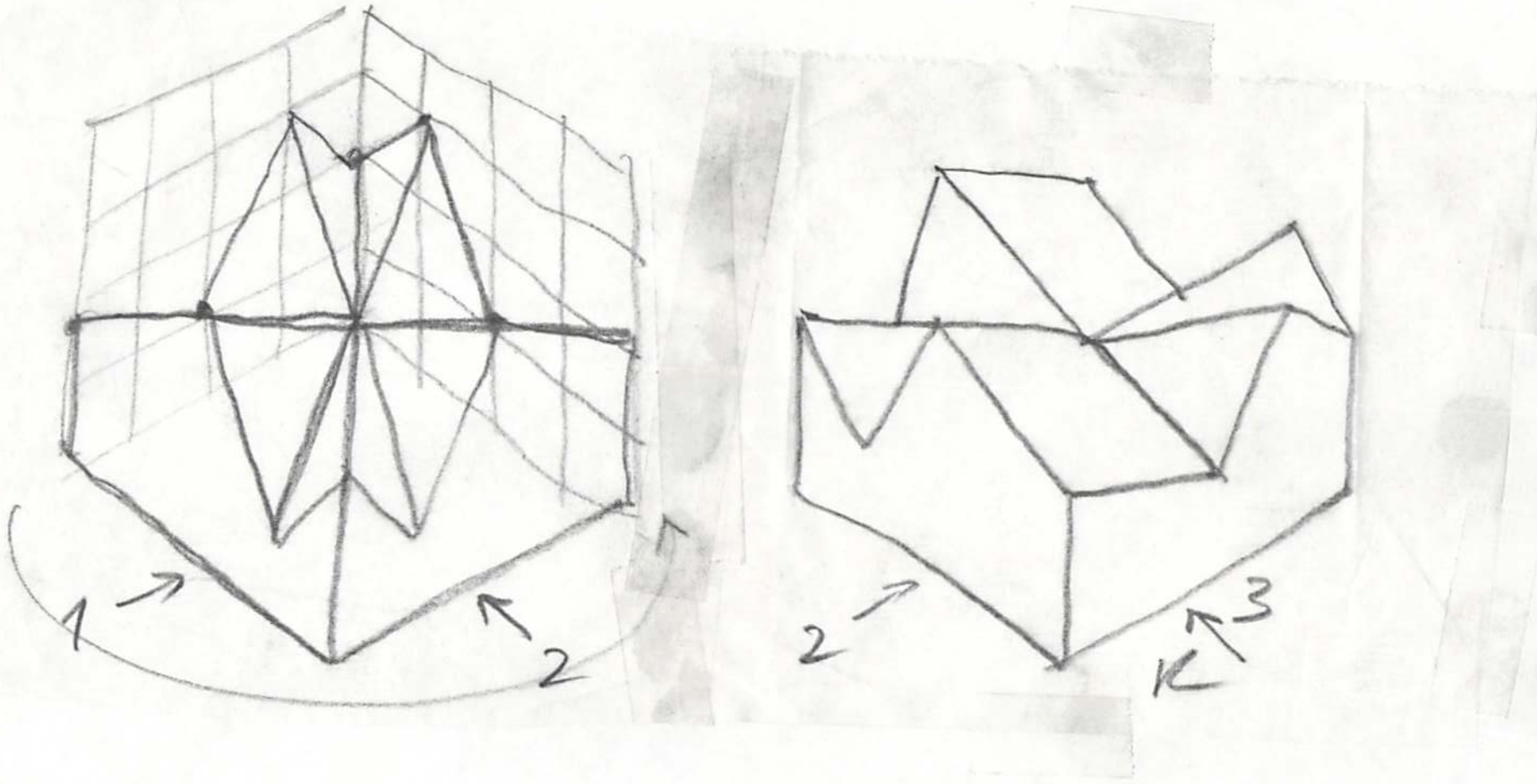
Repeat the faces pattern for the asymmetrical view.
(Sketch on tracing paper – see also page 7.)



When the tracing paper sketch is (literally) folded
backwards along the left and right "hinge" as shown,
the full pattern around the cube is obtained.
Use a new piece of tracing paper to sketch a clean version.

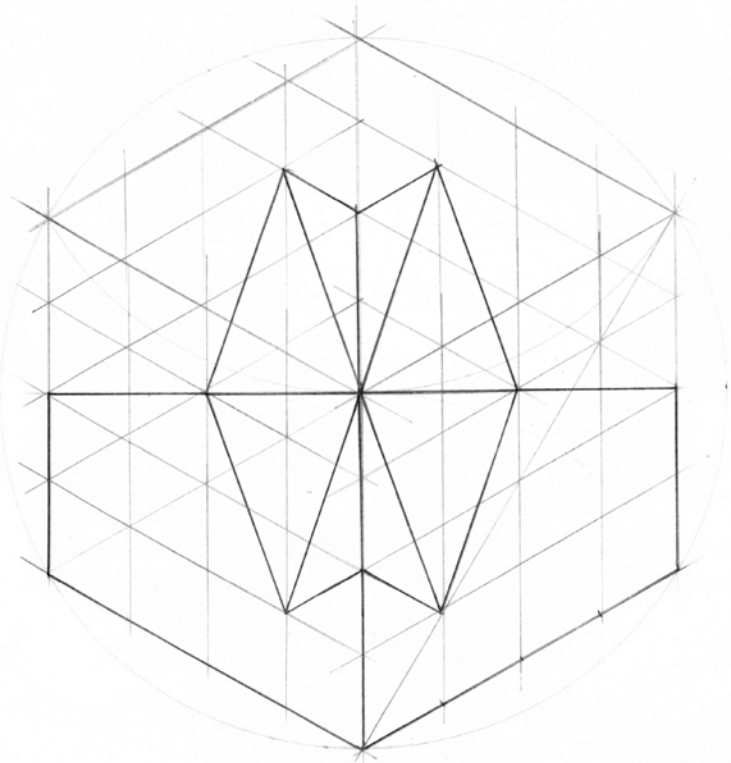


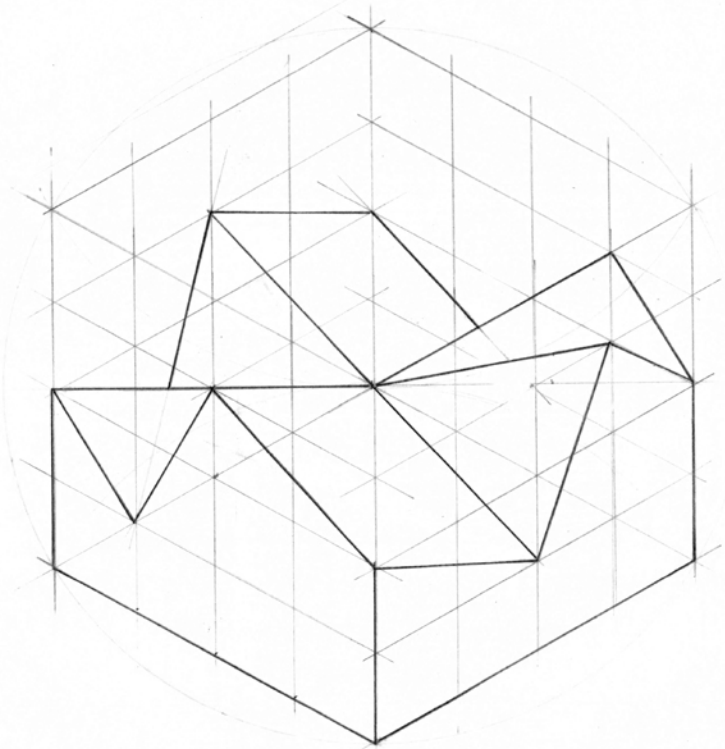
Final sketches for both views



Final drawing.

Keep construction lines light and do not erase them.





# 15 CUBE ISOMETRIC	DES 220 TROGV	PINO TROGV	MARCH 10, 2020