

# WELDING & METAL FABRICATION

FASCU: 235.01  
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PROCESS NOTEBOOK

# CLASS NOTES

LARGE HORIZONTAL <sup>BAND</sup> SAW 9/19/16  
- TURN ON / MAKE SURE FLUIDS ON  
- Hydraulics under 1 (3/4-1)

HW: 4 RIGHT ANGLE WELDS  
3 V WELD (1 FULL BEAD)  
1 ROCK WELD ↗ SANDBLAST  
(1 OR 2)



- 1) cut
- 2) cut down edge
- 3) wipe off grease



- 1) 1" BEADS
- 2) 3 TACTS (ALTERNATE)



- ① CHAMFER
- ② ADD TACTS
- ③ FILL IN HOLES

170amps

HW: 2 SMALL, 2 LARGE  
1 SMALL / LARGE

# MIG → VOLTS (CHART)

9/26/2016



- ① WELD
- ② SANDBLAST
- ③ Right Angle - tough
- ④ Right Angle - lighter
- ⑤ BUFF w/ 80 grit
- ⑥ ORBITAL - 80 grit

HOT VS. COLD  
PROTECTED (LOOKS BLACK)      UNPROTECTED (FOTS FEASCE)  
NEED  
• BOX CUTTING KNIFE

## MIDTERM

- MAKE CARDBOARD MODEL
- AT LEAST 12 PIECES (MIN.)
- SMALL

## FINAL

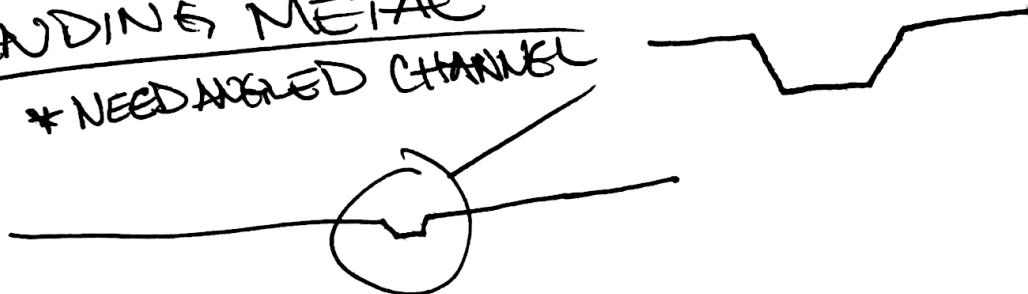
- ANYTHING YOU WANT
- NO PERAMITERS

## DUE NEXT CLASS:

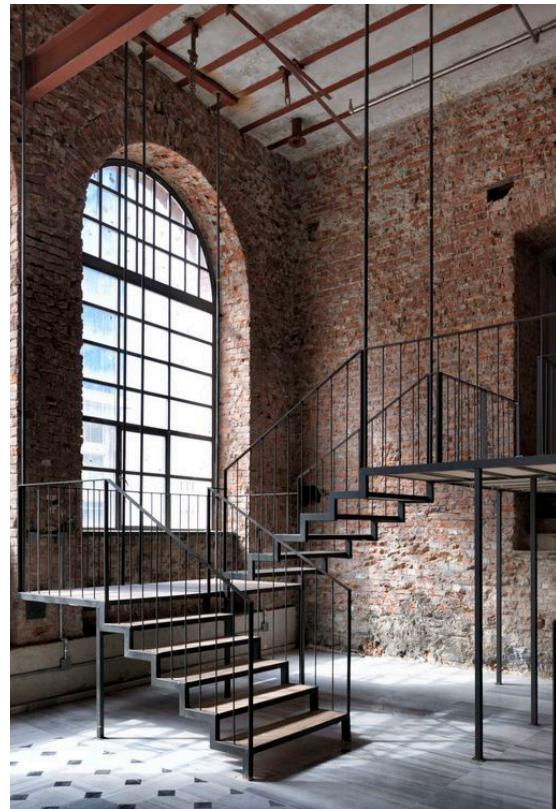
- 1) 2 pieces FINISHED SEAMLES
- 2) PROGRESS on Midterm
- 3) start researching FINAL

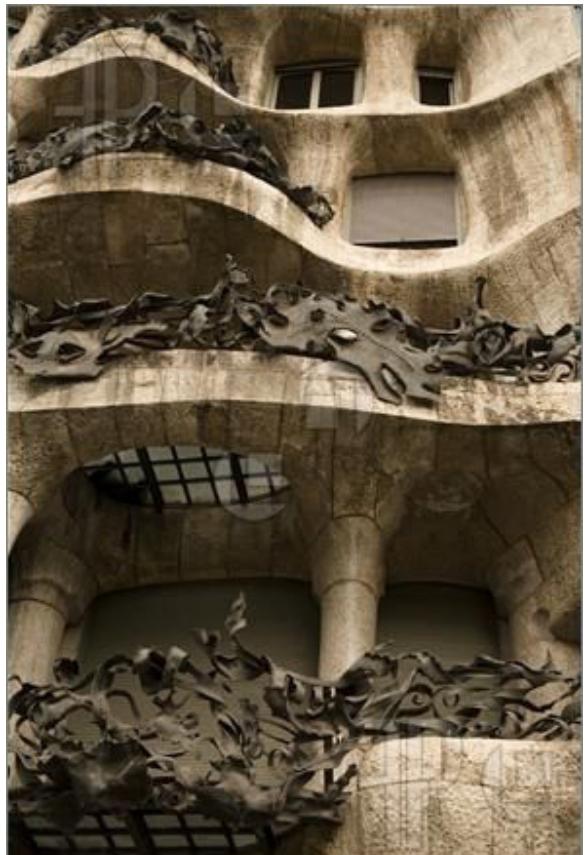
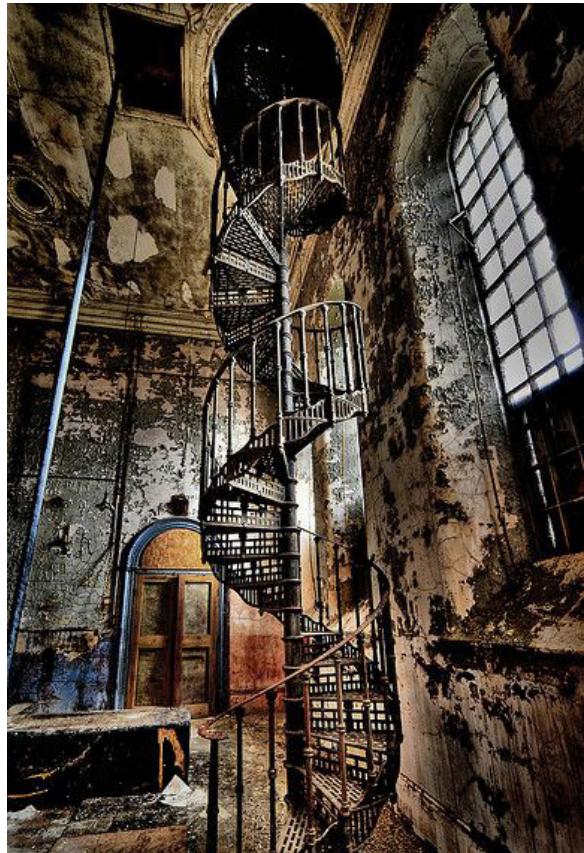
## BENDING METAL

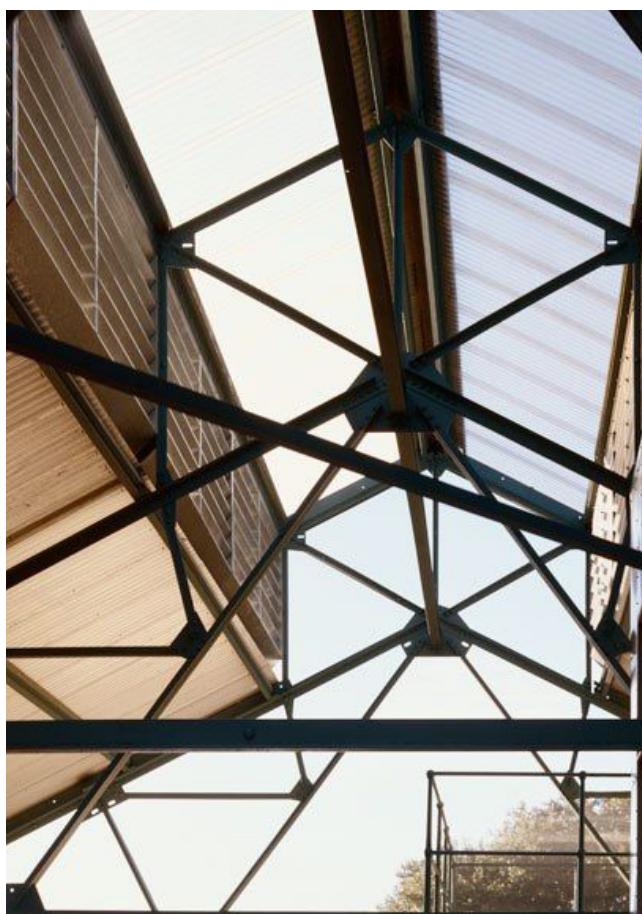
\* NEED ANGLED CHANNEL



# ARCHITECTUAL INSPIRATION







# FURNITURE INSPIRATION

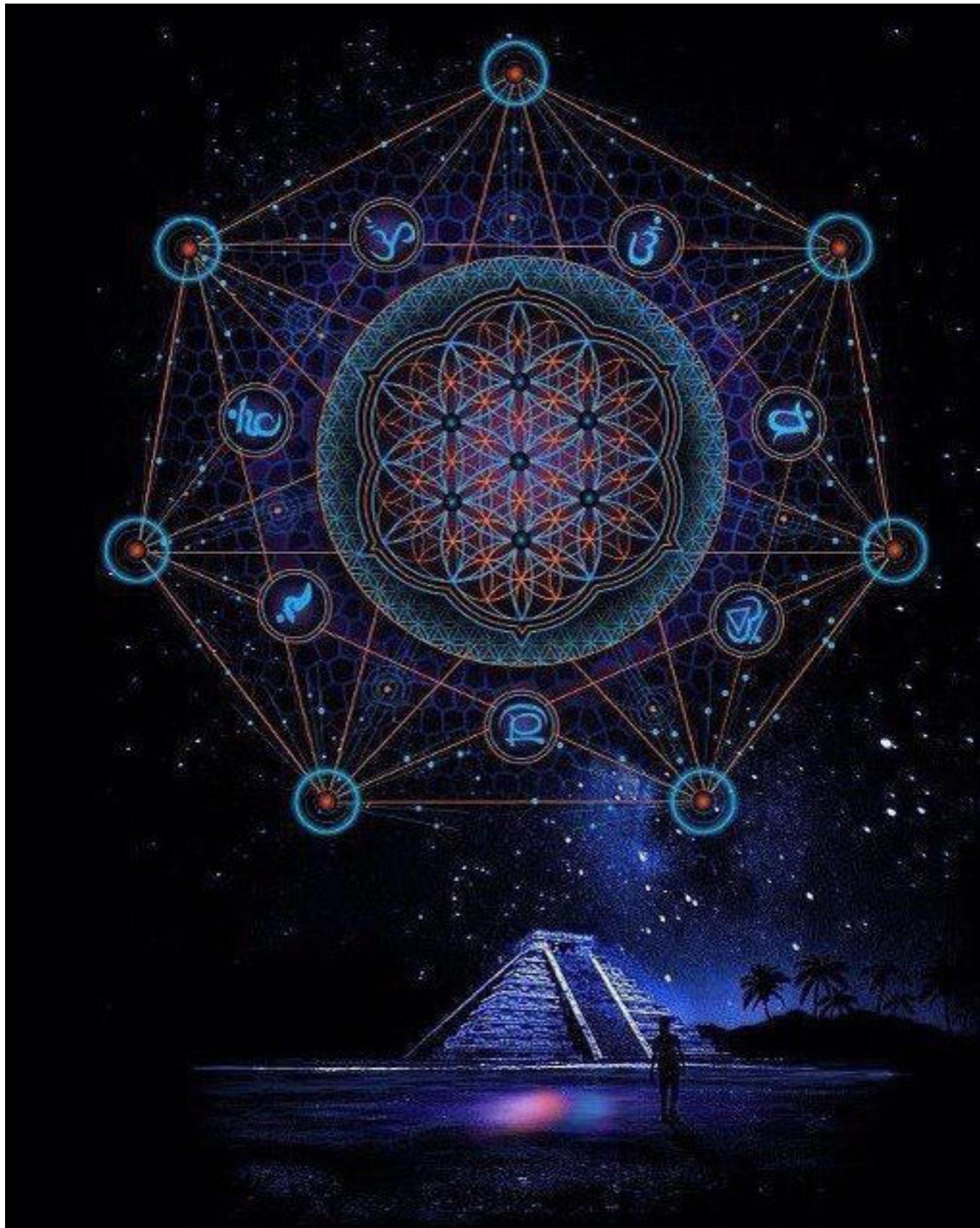
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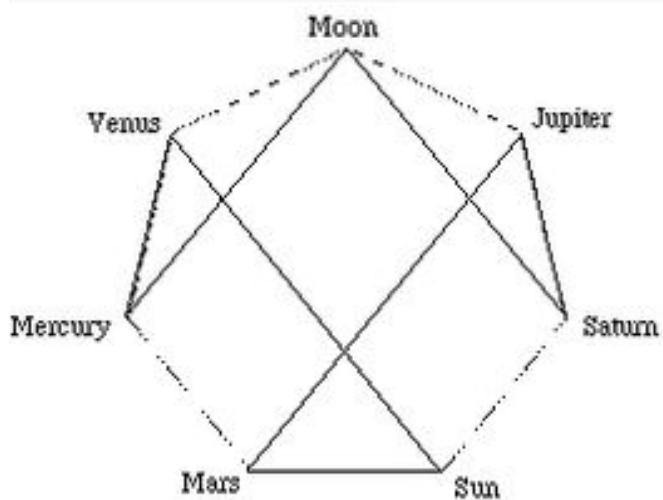
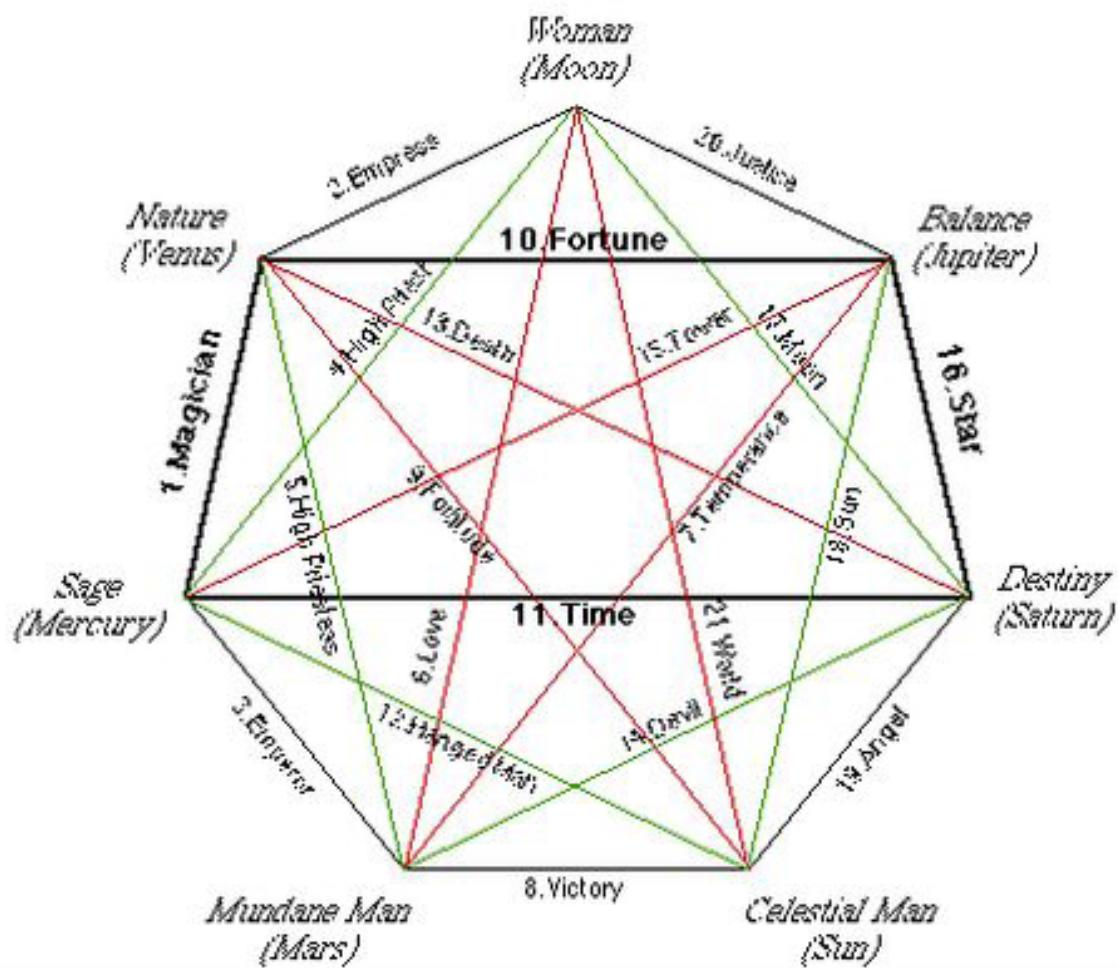


# SEMESTER CONCEPT

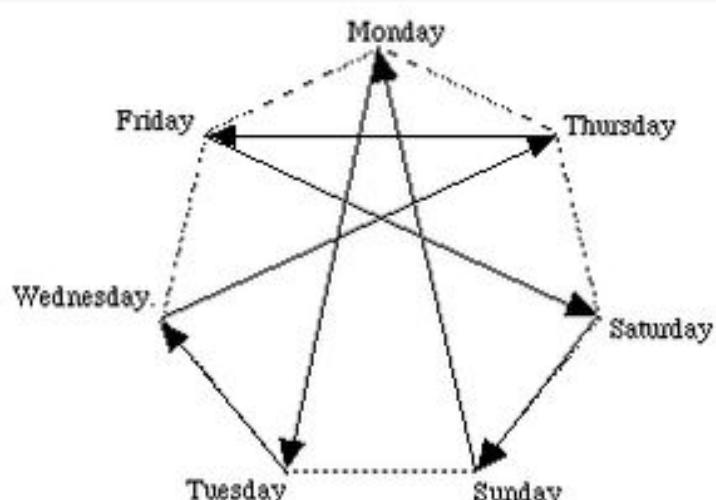
HEPTAGON



*Heptagrammon  
Arcanorum Maiorum*



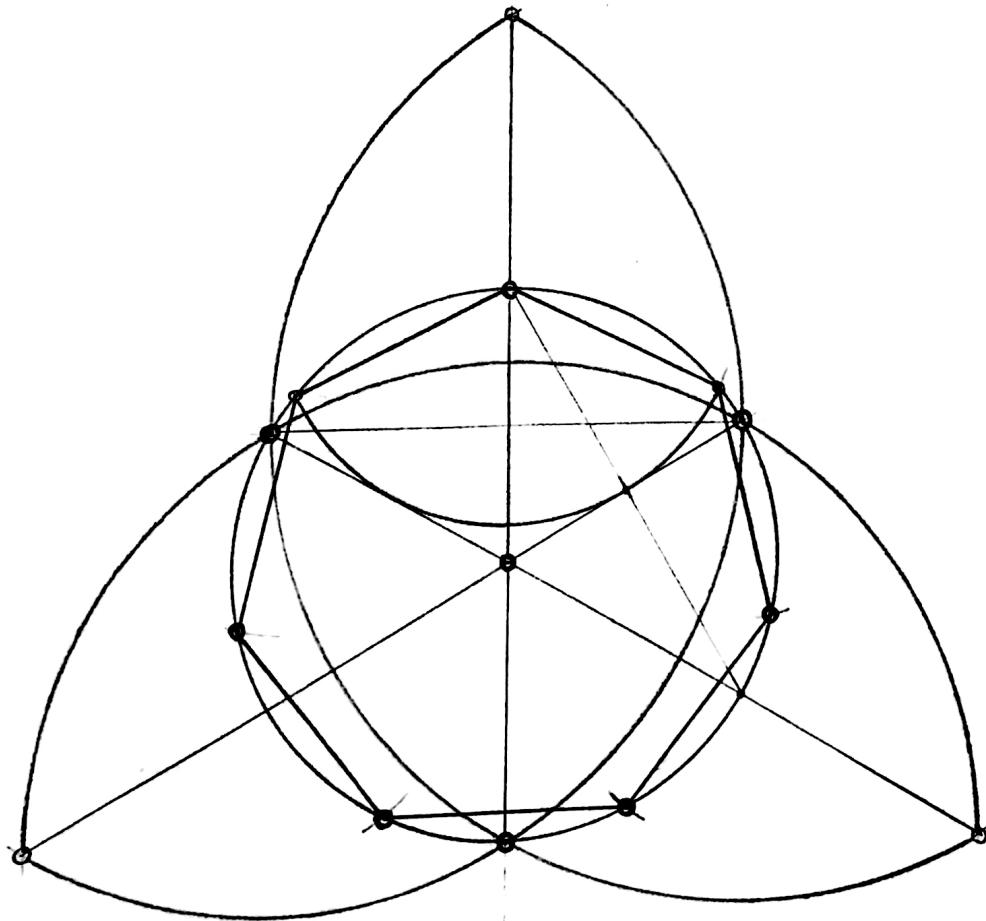
Chaldean/Greek Order of Planets



Weekly Order of Planets

Heptagon from The Triple Verica

136.



THE HEPTAD

136.

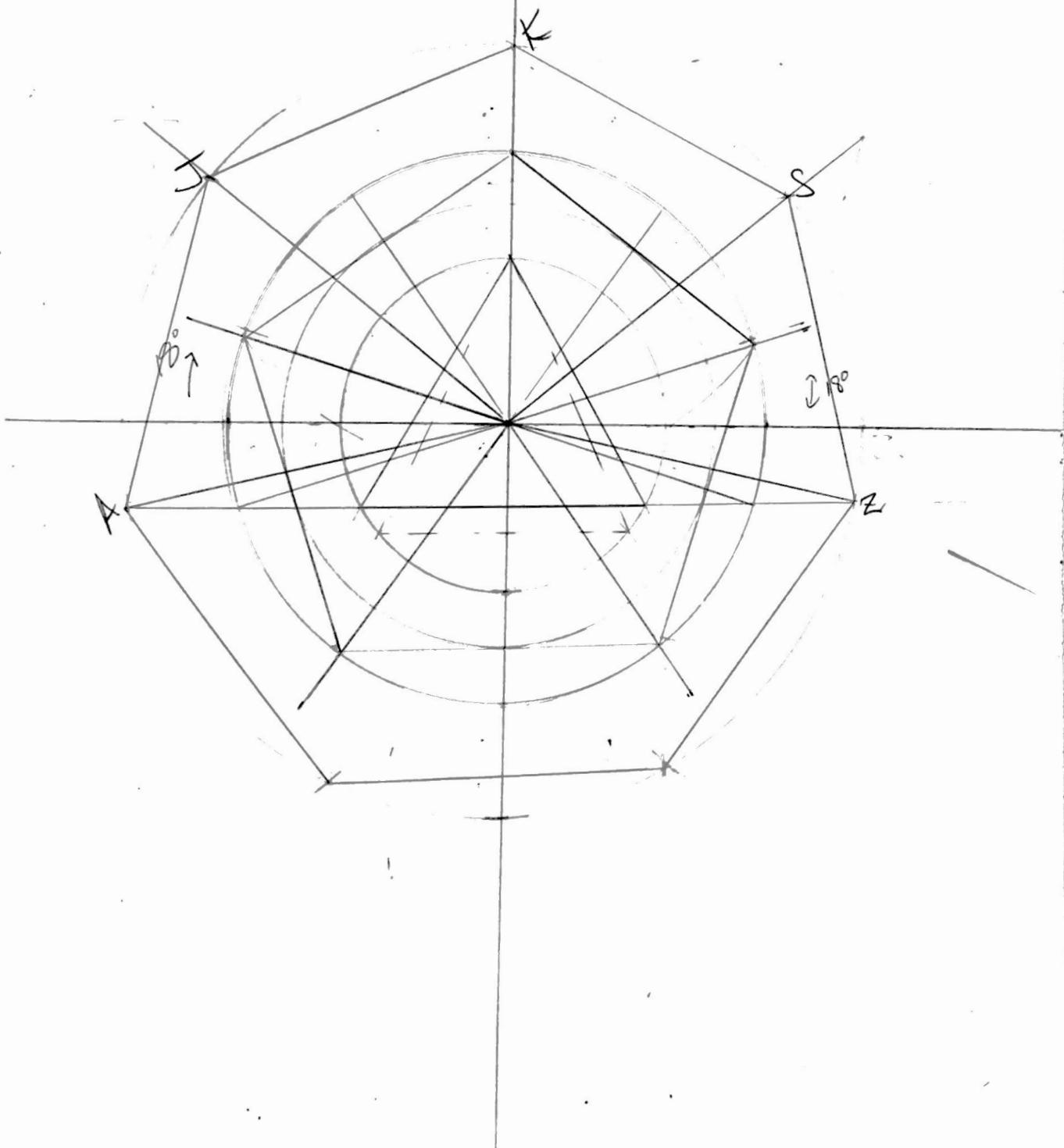
MAR 13

- The Forager (epithet of Athena)
- Athena
- Citadel (*akropolis*)
- Reaper
- Hard to Subdue Defence
- Due Measure (*kairos*)
- Virgin (*parthenos*)
- Revered Seven (*septas + sebomai = heptas*)
- Bringing to Completion (*Telesphorus*)
- Fortune, Fate
- Preserving

Heptagon 7 sides  
 $\angle 15^\circ$ . 42857142857

"Heptagon From Pentagram"

$$AK = 102^\circ \pm 8$$



# MIDTERM

MIDTERM



- 7 Sided STAR  
x 2 FOLDED



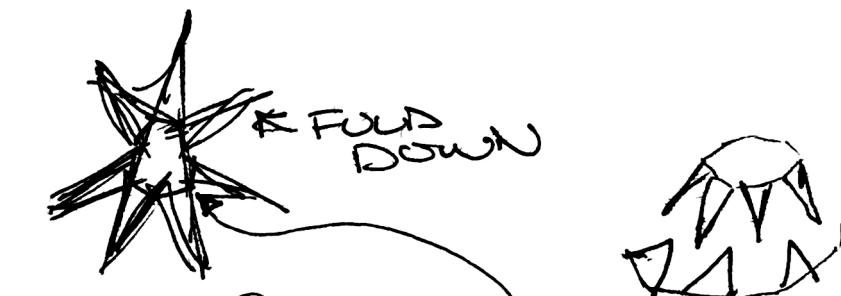
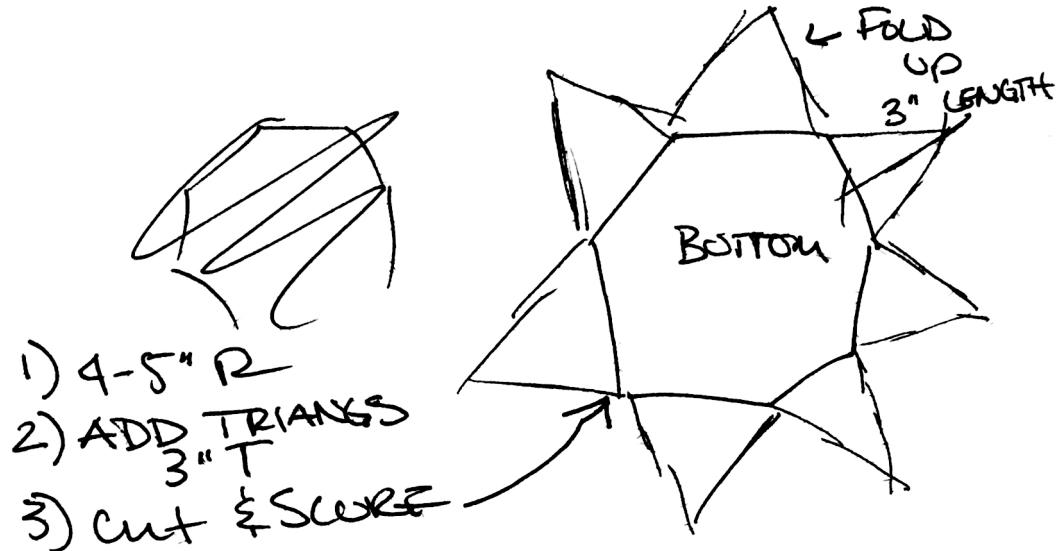
CARDBOARD  
MODEL

3 1/2" R

1" R (to  
double  
size)

every 61.4°  
7 point



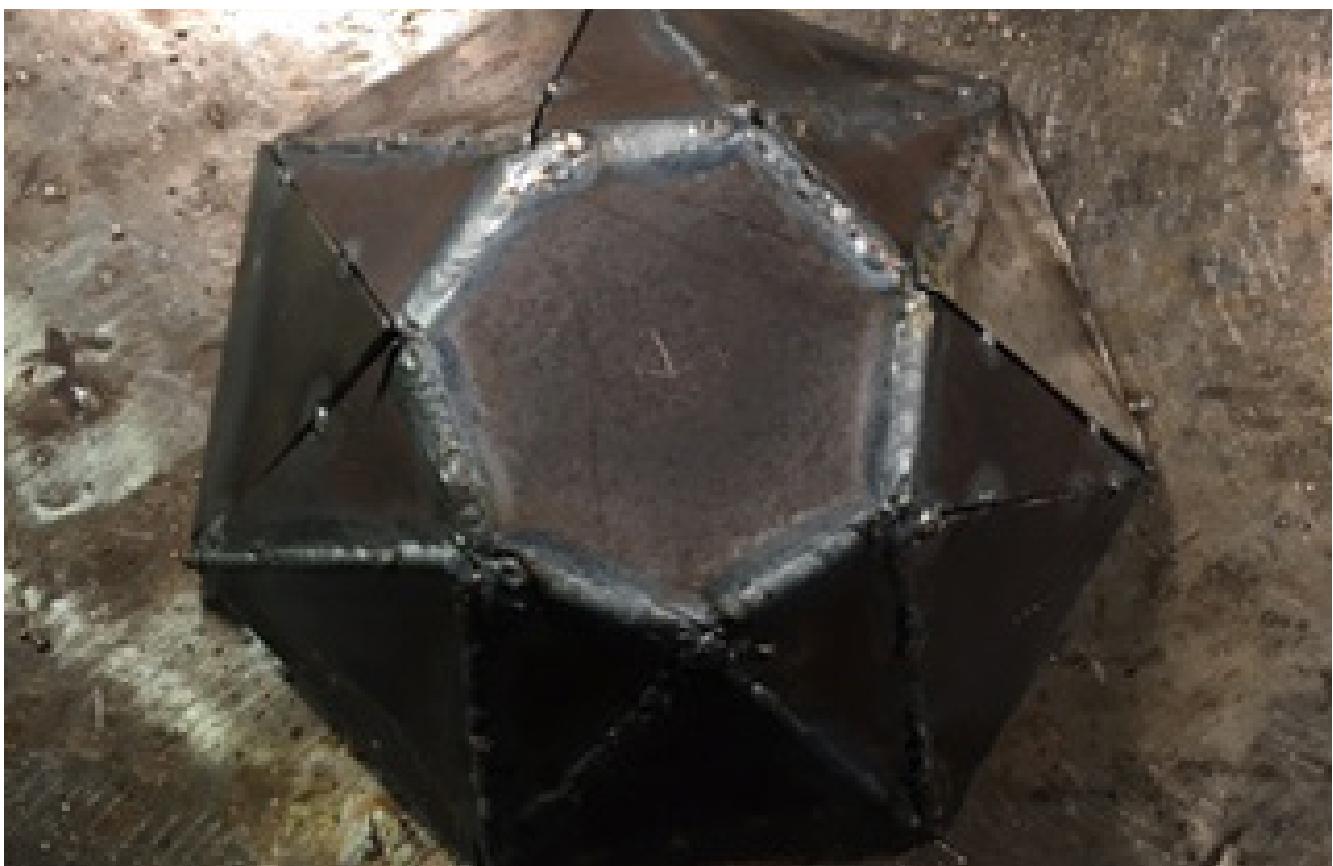


THEN

1) BEND BOTH PIECES  
 2) WELD TOGETHER





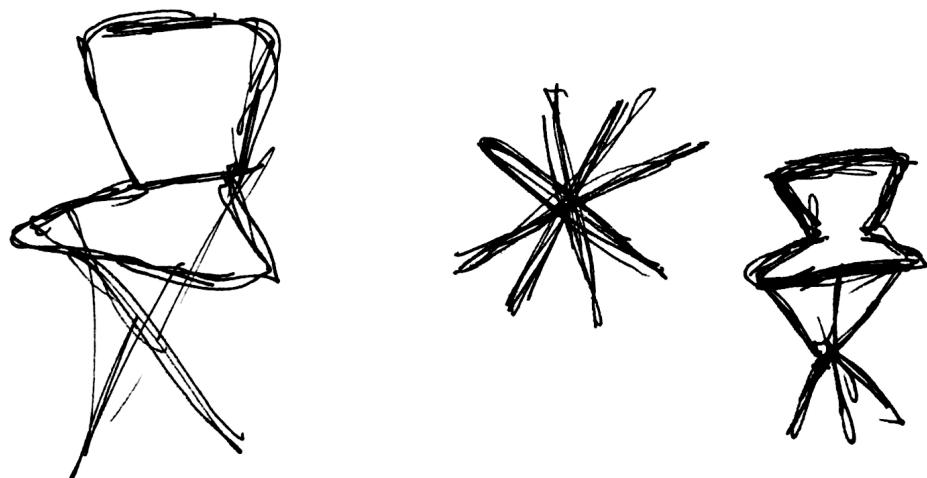
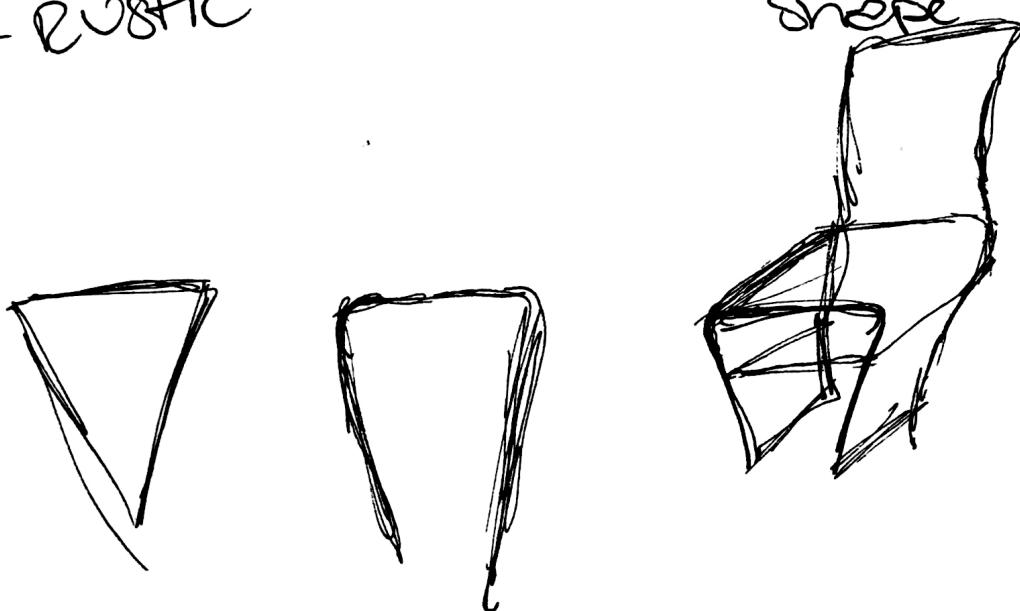


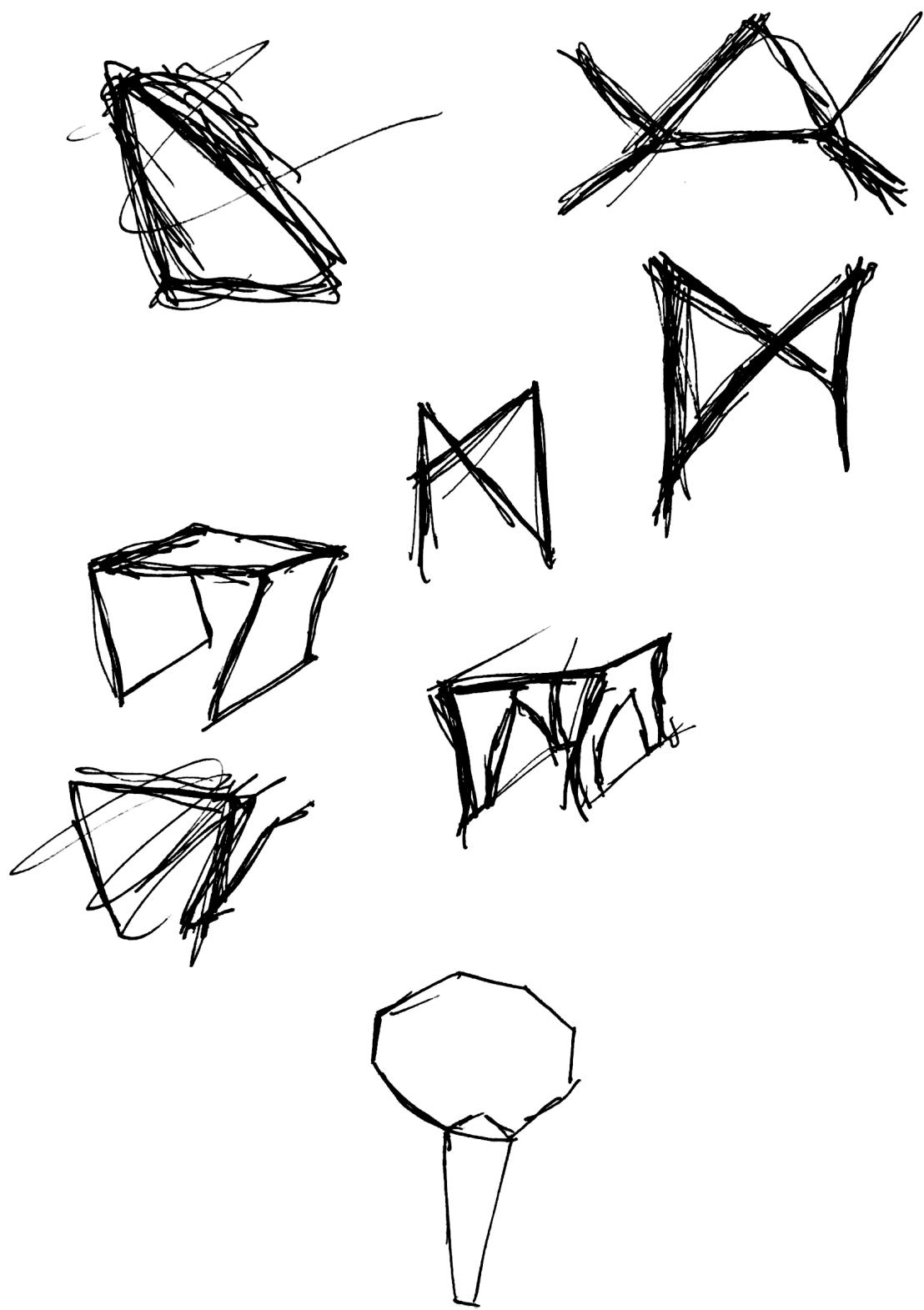


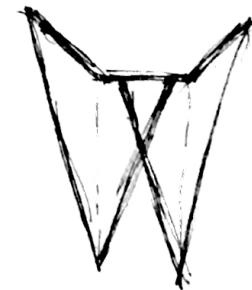
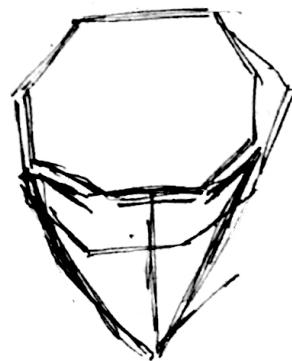
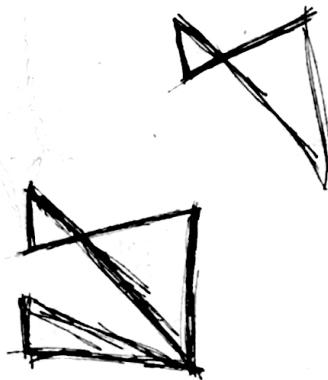
# FINAL

- verticality
- strong geometry (mostly triangular)
- Old
- RUSTIC

→ POPS OF organic  
shape







(1) 1" x 1" 26  
(2) 6" ~~6"~~ 60°



