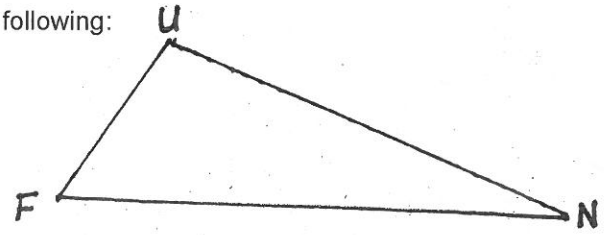
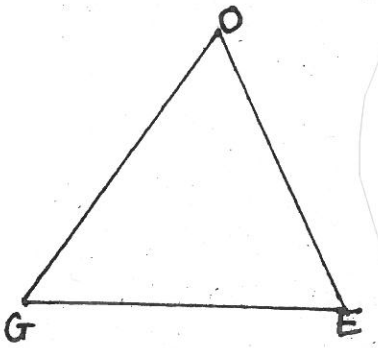
Constructions Day 3 Constructer: _____

Using only a pencil, compass and straightedge, *construct* the following:

1. Bisect $\angle FUN$ at right

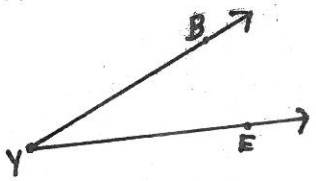



2. The *midsegment* of a triangle is a segment which connects the midpoints of two sides. Construct one midsegment in ΔGEO at right.

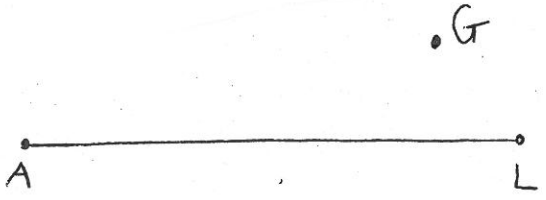



3. A rectangle with sides the same lengths as $\overline{MO}$ and $\overline{HA}$


4. A copy of $\angle BYE$




5. A line parallel to $\overline{AL}$ and going through G.




6. Make a triangle with all sides the same length (equilateral triangle) by doing the following:

a) Mark a center point and draw a circle about it.
b) Mark a point anywhere on your circle
c) Measure the radius of circle with compass (radius is length from center to any point on the circle)
d) Use the length of radius to mark another point along the circle.
(point of compass on your marked point, use pencil to mark where that length hits circle)
e). Repeat from the new point... mark a 3rd point that is the length of radius away from the 2nd.
f) Keep repeating around circle; you should be able to fit in exactly 6 marks around circle.
g) With your straightedge connect *every other* mark