**Geometry U 1-10: Copying Polygons Put all work and responses on another paper.**

 **The verb “construct” means to use a compass and a straightedge.**

1] Construct a parallelogram. MAKE SURE the sides are NOT parallel with any blue lines on your paper: otherwise, you will appear to make your drawing by eye, not by instruments.

2] Construct a copy of /\ MNP: 

3] Record the measure of each angle in /\ MNP.

4] Copy / M; then construct the angle bisector of / M

 on your paper.

5] Are A, D, and G coplanar points? Explain your response.

6] Are A, B, C and G coplanar points? Explain your response.

7] Explain how $\overleftrightarrow{AE}$ and $\overleftrightarrow{BD}$ are related.

8] Are C and F collinear points? Explain your response.

9] Challenge: Explain step by step how to construct

 a regular polygon with 12 sides (called a dodecagon).

 Also construct an example.