

DIAGRAMS	STEPS	WHAT THIS DOES (justification)
	1. Use the same radius for all circles in this construction. Start with circle $H$ . All vertices of the hexagon will be on circle $H$ .	
	2. Choose a point on circle $H$ and label it $E$ .	
	3. Construct circle $E$ (same radius as circle $H$ ). Label points $X$ and $N$ where circles $H$ and $E$ intersect.	
	4. Construct circle $X$ and label point $A$ where circles $H$ and $X$ intersect.	
	5. Construct circle $A$ and label point $G$ where circles $H$ and $A$ intersect.	
	6. Construct circle $G$ and label point $O$ where circles $H$ and $G$ intersect.	
	7. Connect points $E, X, O, G, A,$ and $N$ to complete the regular hexagon.	