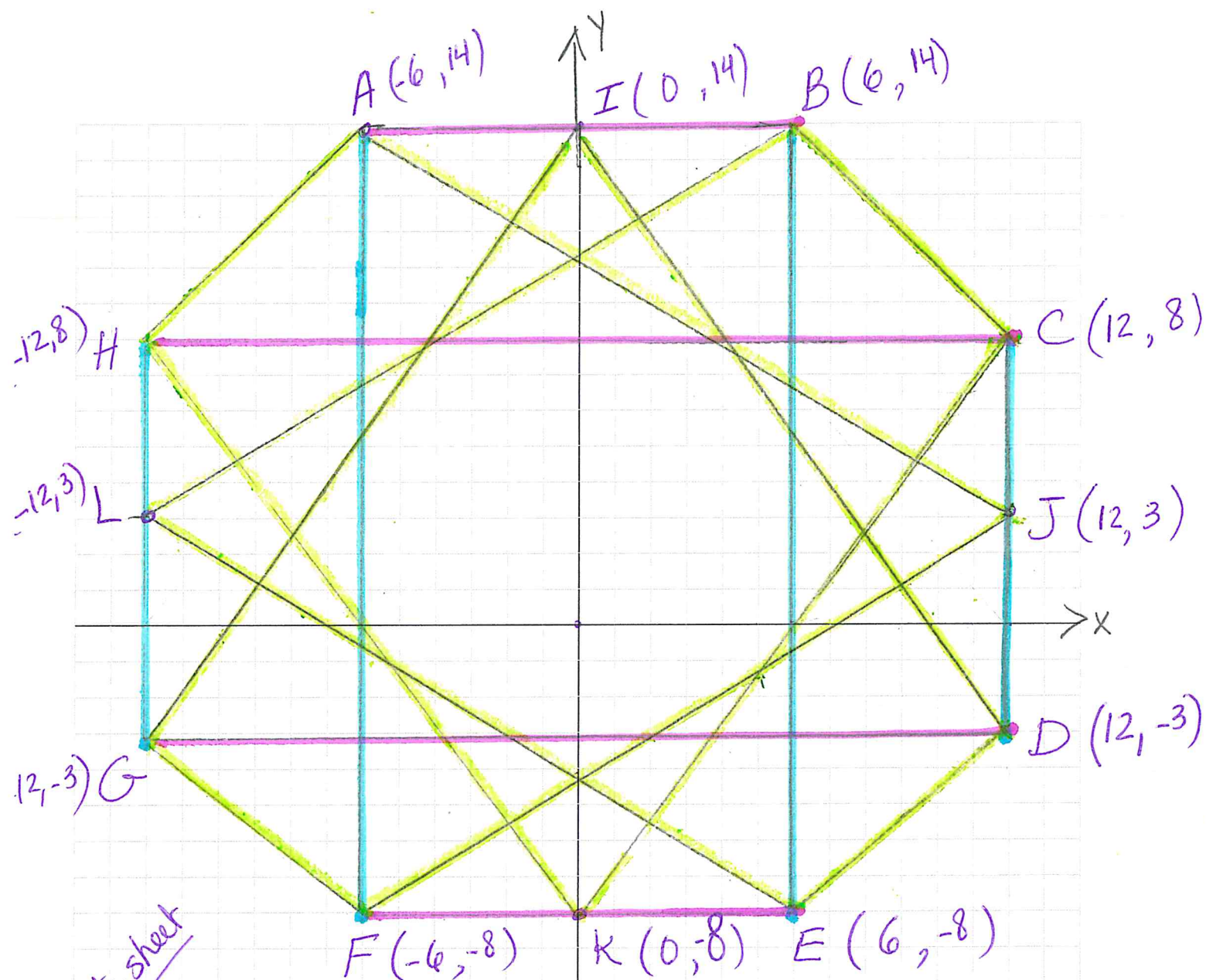




Seperate sheet

$$\begin{matrix} x_1 & y_1 & x_2 & y_2 \\ \rightarrow B(6, 14) & C(12, 8) \end{matrix}$$

$$\overline{BC} = \sqrt{(12-6)^2 + (8-14)^2} = \sqrt{(6)^2 + (6)^2} = \sqrt{36+36}$$

$$\overline{BC} = \sqrt{72} = \sqrt{2 \cdot 36} = 6\sqrt{2}$$

$$\boxed{\overline{BC} = 6\sqrt{2}}$$