(1) Show that $G_1$ and $G_2$ are isomorphic.

(2) Find some self-complementary graphs.

(3) Let $G$ be a graph. Show that $G$ or $\overline{G}$ is connected.

(4) What is the lowest value of $n$ for which there exists an $r$ and two non-isomorphic, connected, simple, $r$-regular graphs with $n$ vertices?

(5) Does there exist a graph $G$ with 100 vertices such that both $G$ and $\overline{G}$ are planar? What about other numbers of vertices?