Question:

Prepare a UML diagram (class diagram) for a “graphical document editor” that supports grouping. Assume that a document consist of several sheets. Each sheet contains drawing objects, including texts, geometrical objects and groups. A group is simply a set of drawing objects; possibly including other groups. A group must contain at least two drawing objects. A drawing object can be direct member of at most one group. Geometrical objects include circles, ellipses, rectangles, lines and squares. There is an owner of the each document; Owner has the privilege to share the document with other users. [You are not allowed to make extra classes except those described in above requirements.]

b. Briefly explain each relationship between classes.