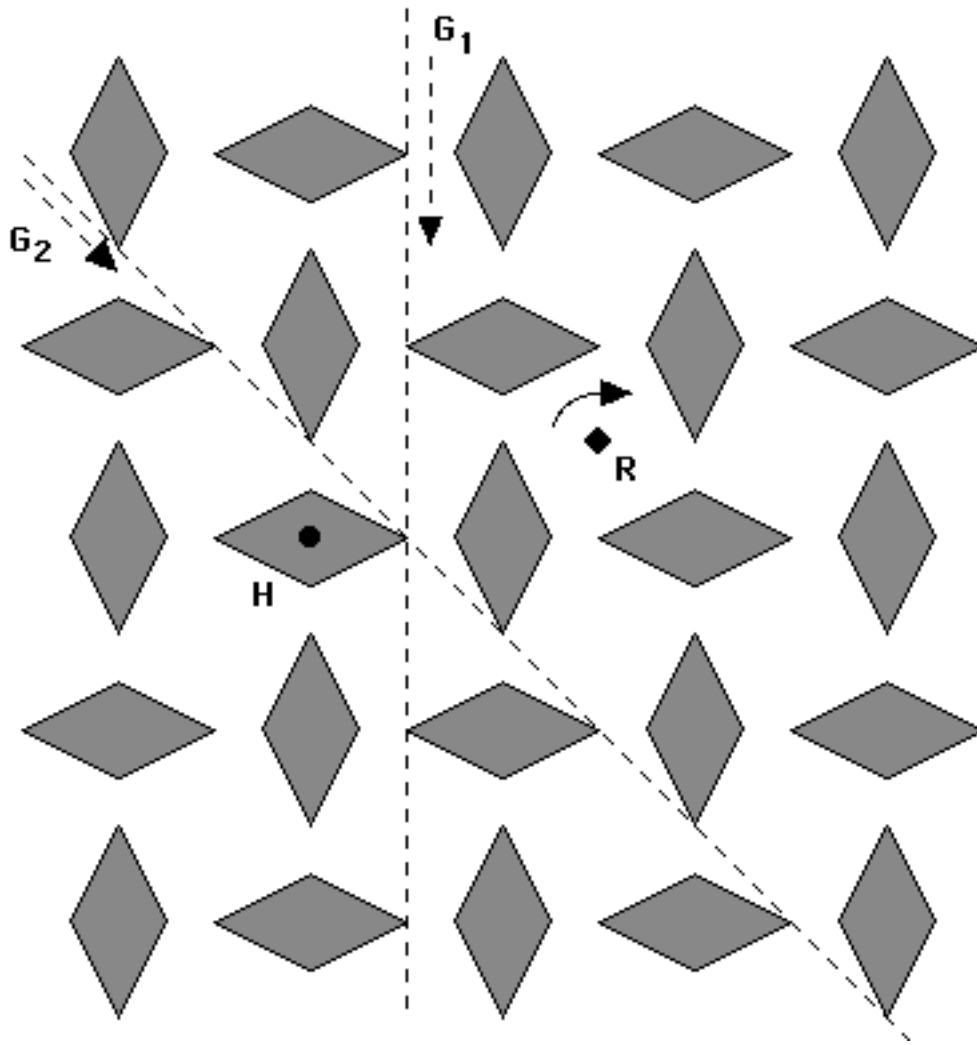
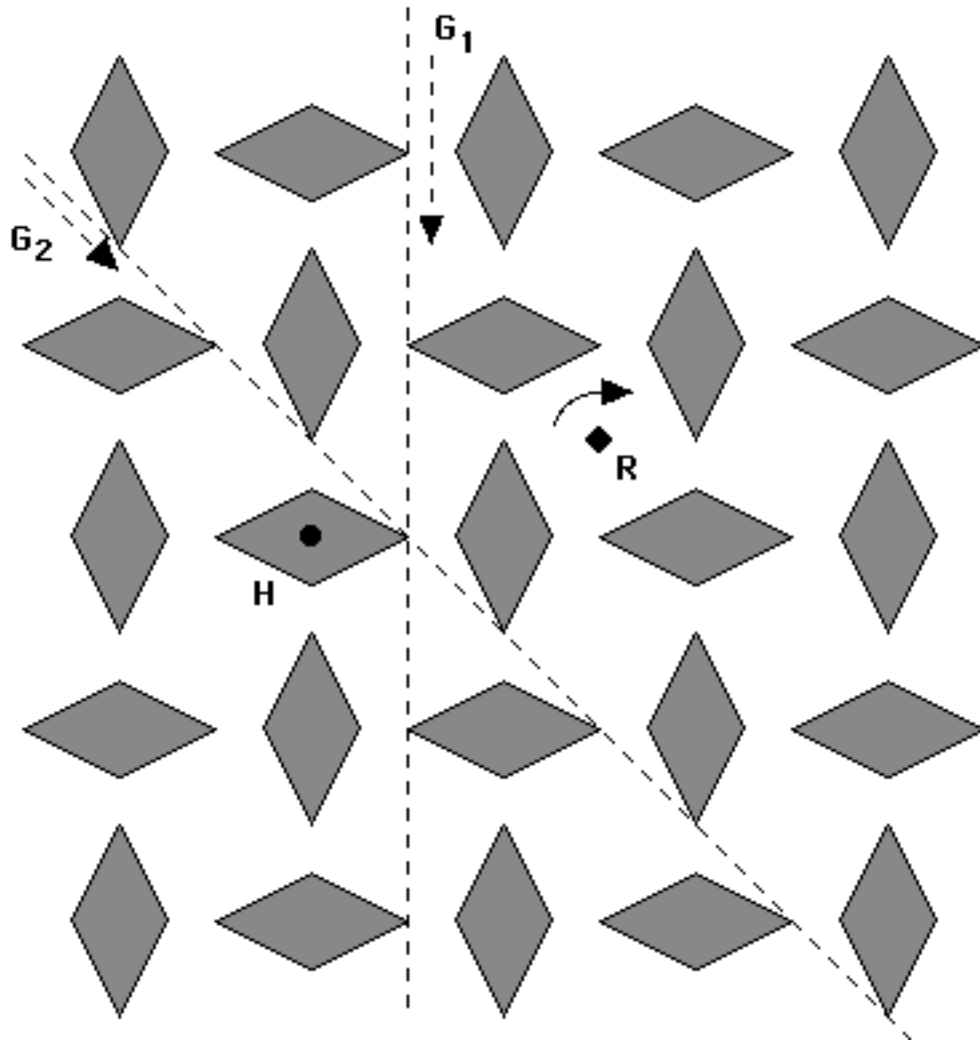


MAT 203 -- Homework #6

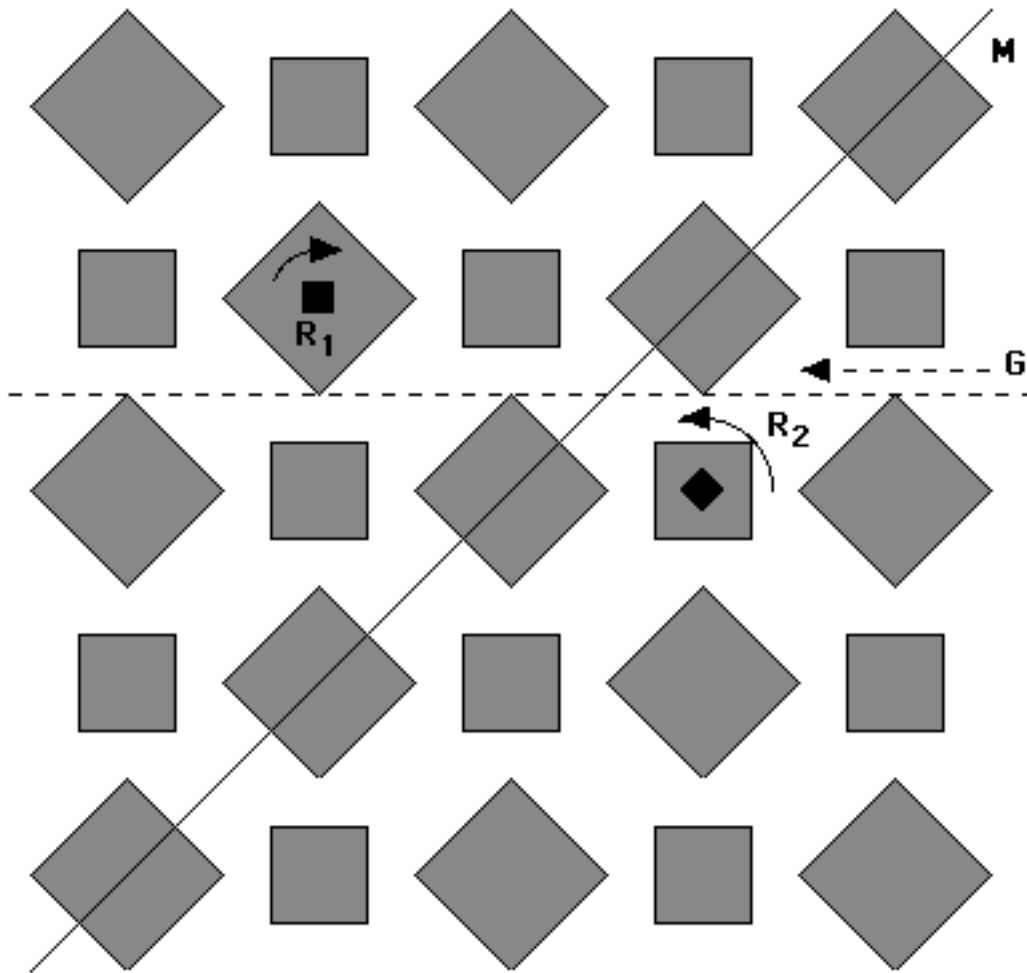
(1) Determine the following compositions: $R \circ G_1$, $G_2 \circ H$, $G_1 \circ G_2$, $R \circ H$



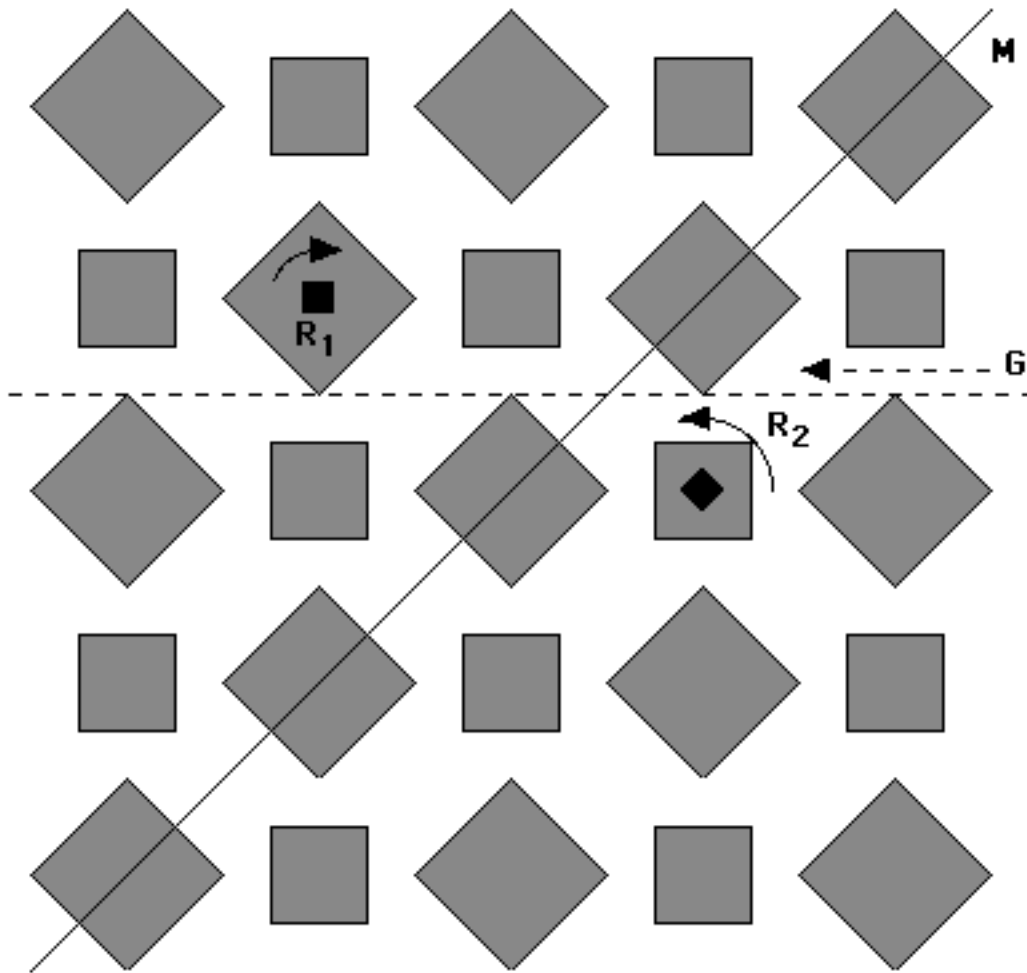
(2) Determine the following images: $G_1[G_2]$, $G_2[R]$, $R[G_1]$, $H[G_2]$



(3) Determine the following compositions: $R_1 \circ R_2$, $M \circ R_1$, $G \circ M$, $R_2 \circ M$



(4) Determine the following images: $R_1[M]$, $R_2[R_1]$, $G[R_2]$, $M[R_2]$



(5) Determine $\mathbf{R}_2 \circ \mathbf{R}_1$ (center and oriented angle) by expressing each rotation as composition of two reflections:

