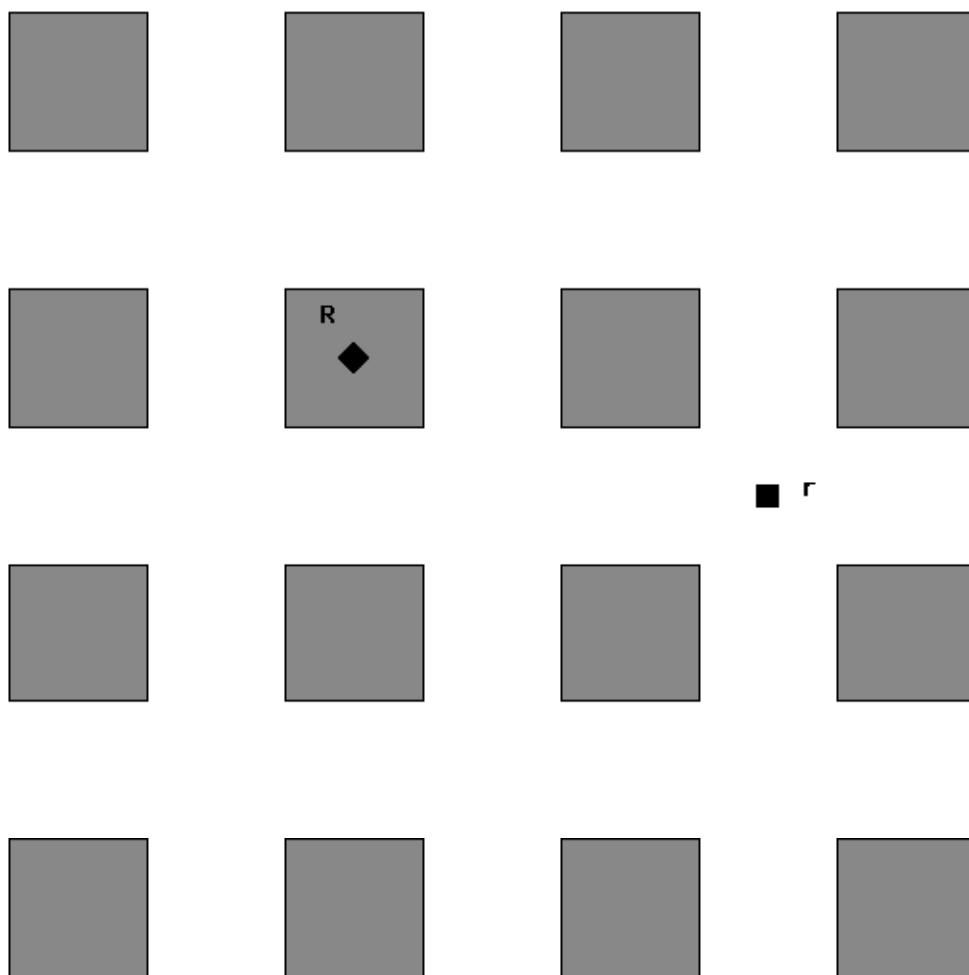


## MAT 203 -- Homework #6

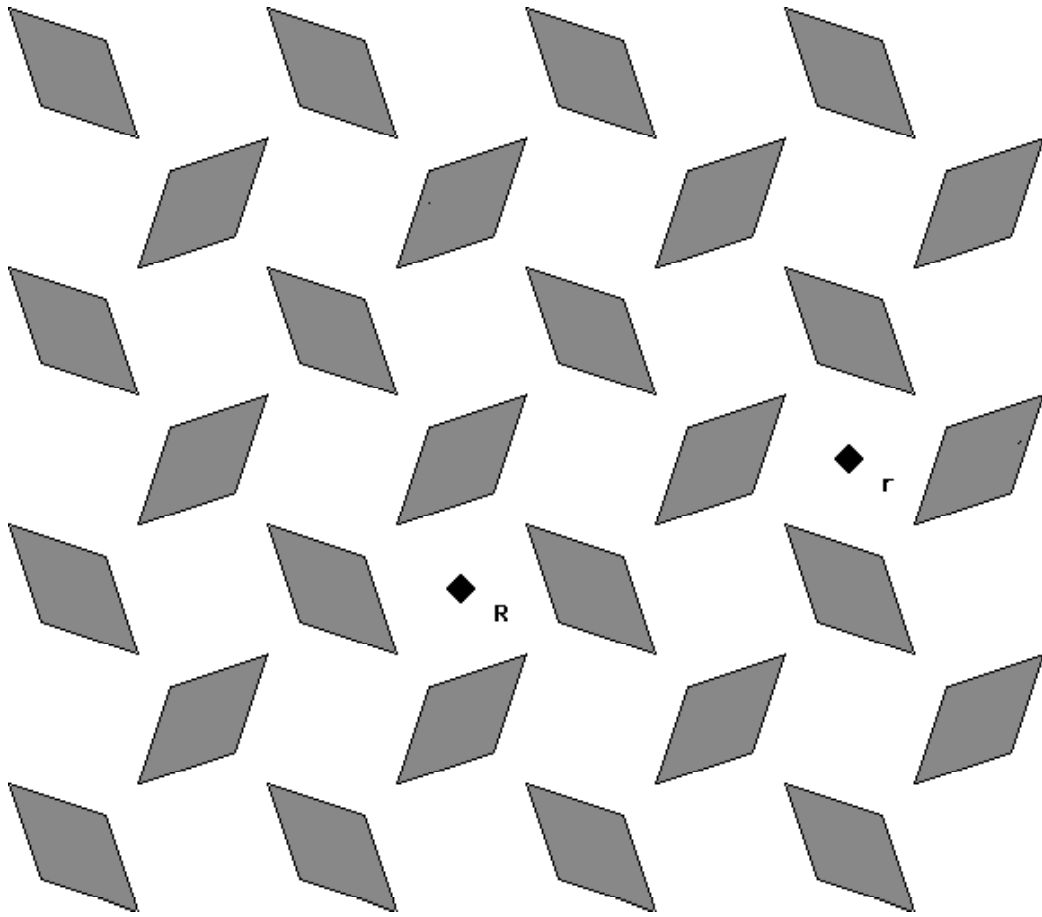
Determine the indicated isometry compositions:

(1)



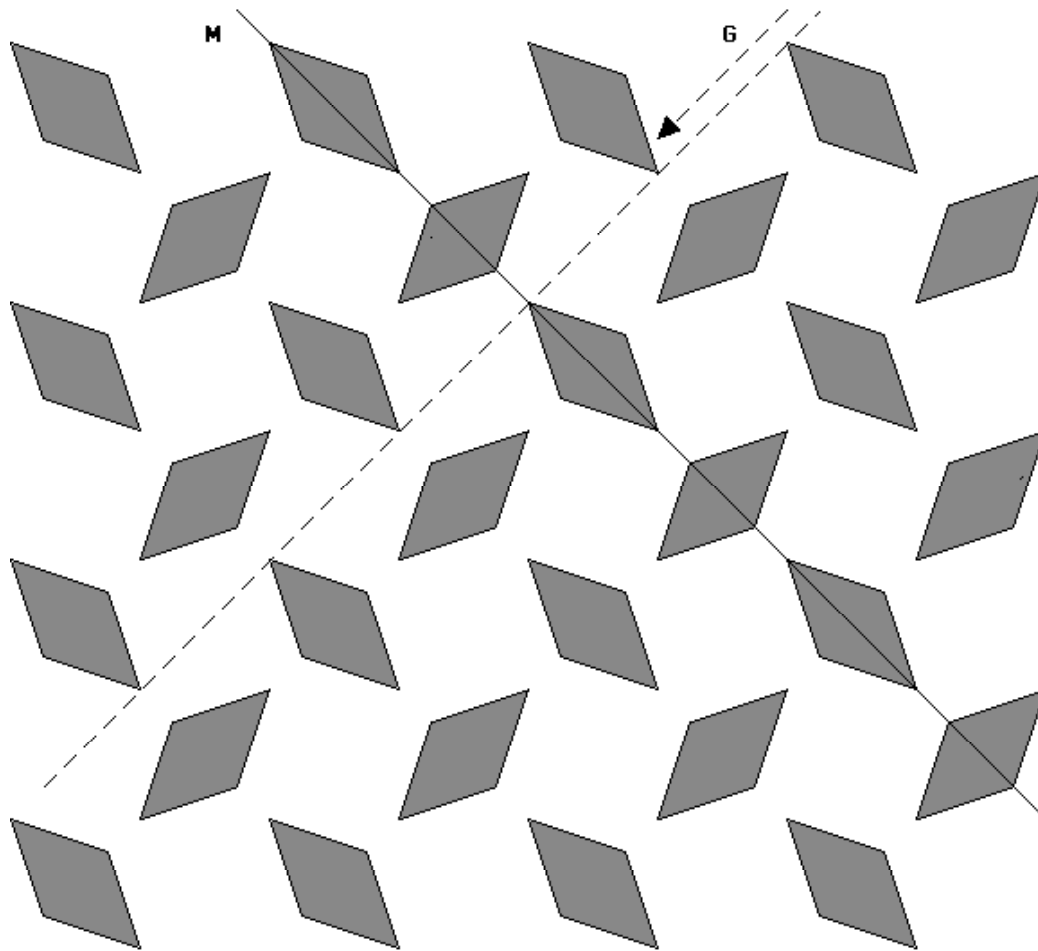
$R * r$  (clockwise  $90^0$  rotation  $r$  followed by clockwise  $90^0$  rotation  $R$ )

(2)



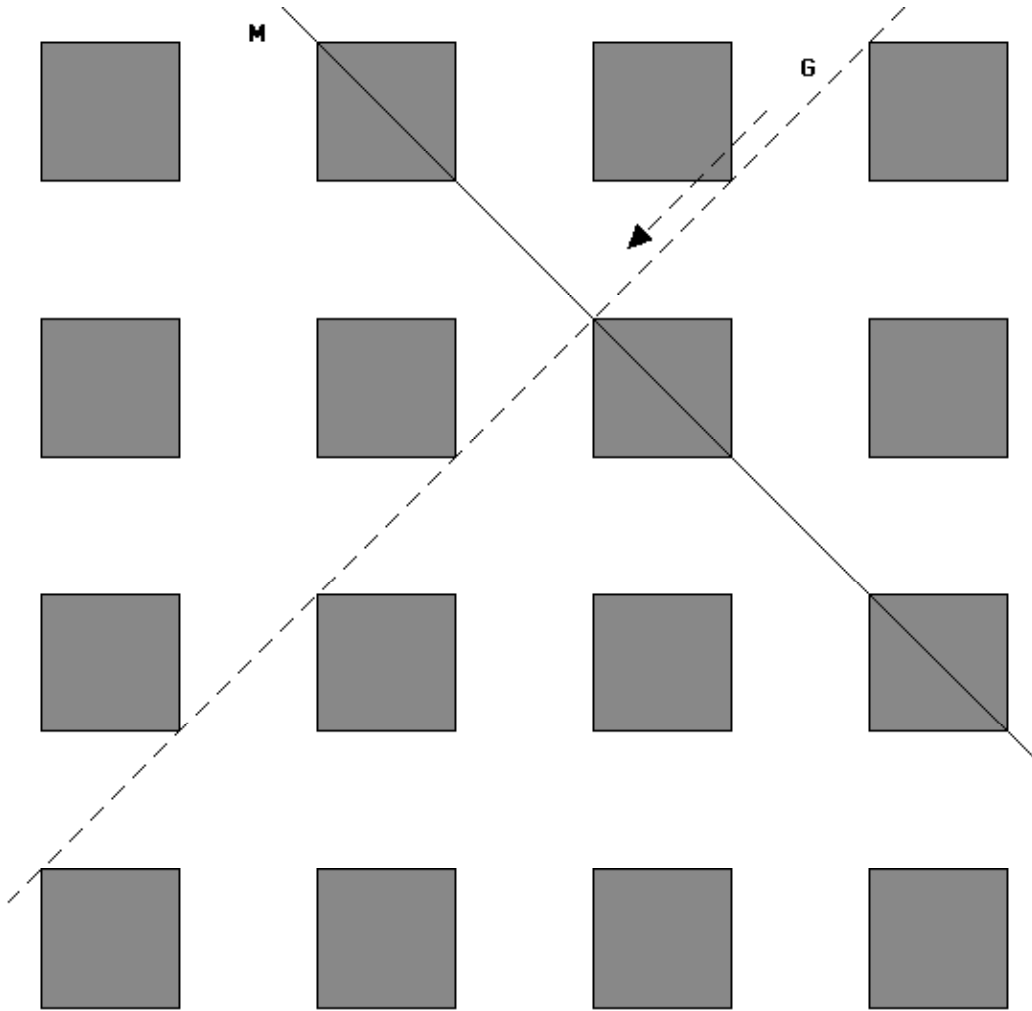
$R*r$  (clockwise  $90^\circ$  rotation  $r$  followed by clockwise  $90^\circ$  rotation  $R$ )

(3)



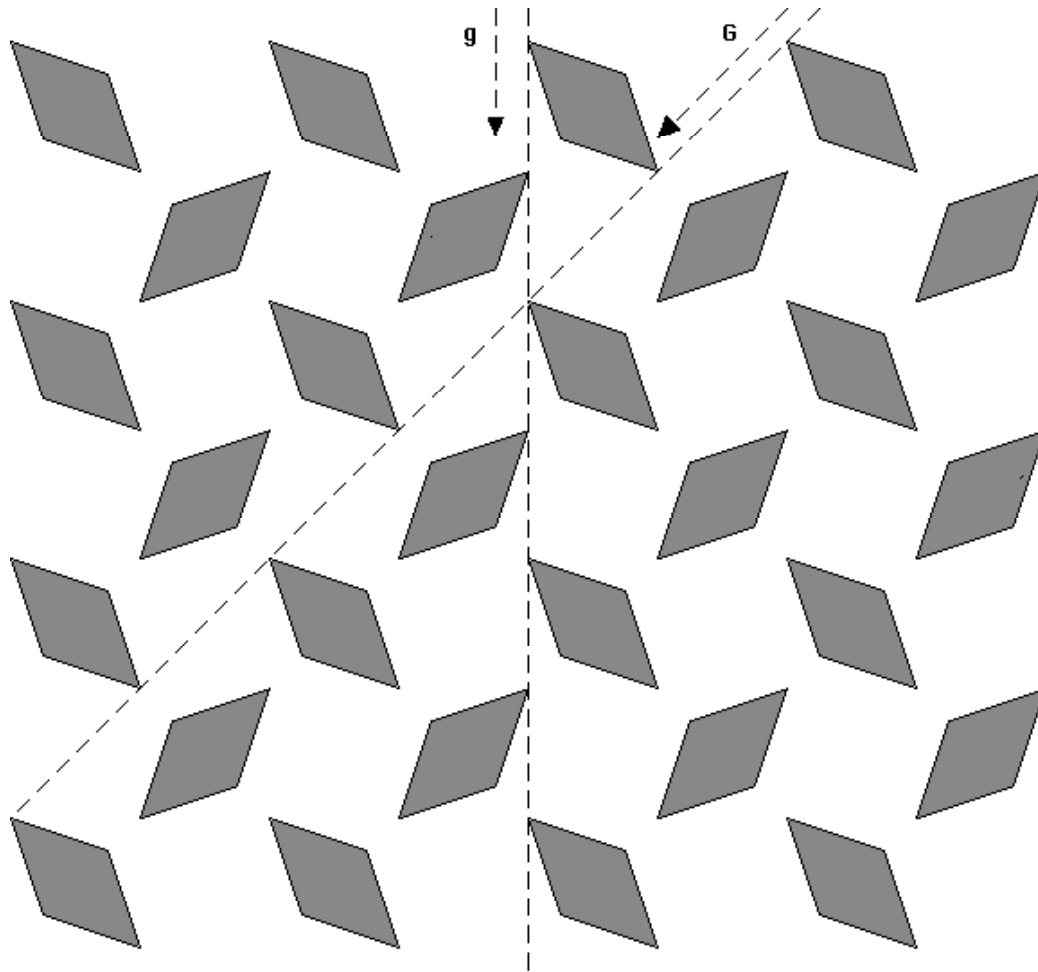
**$G \circ M$**  (reflection **M** followed by glide reflection **G**)

(4)



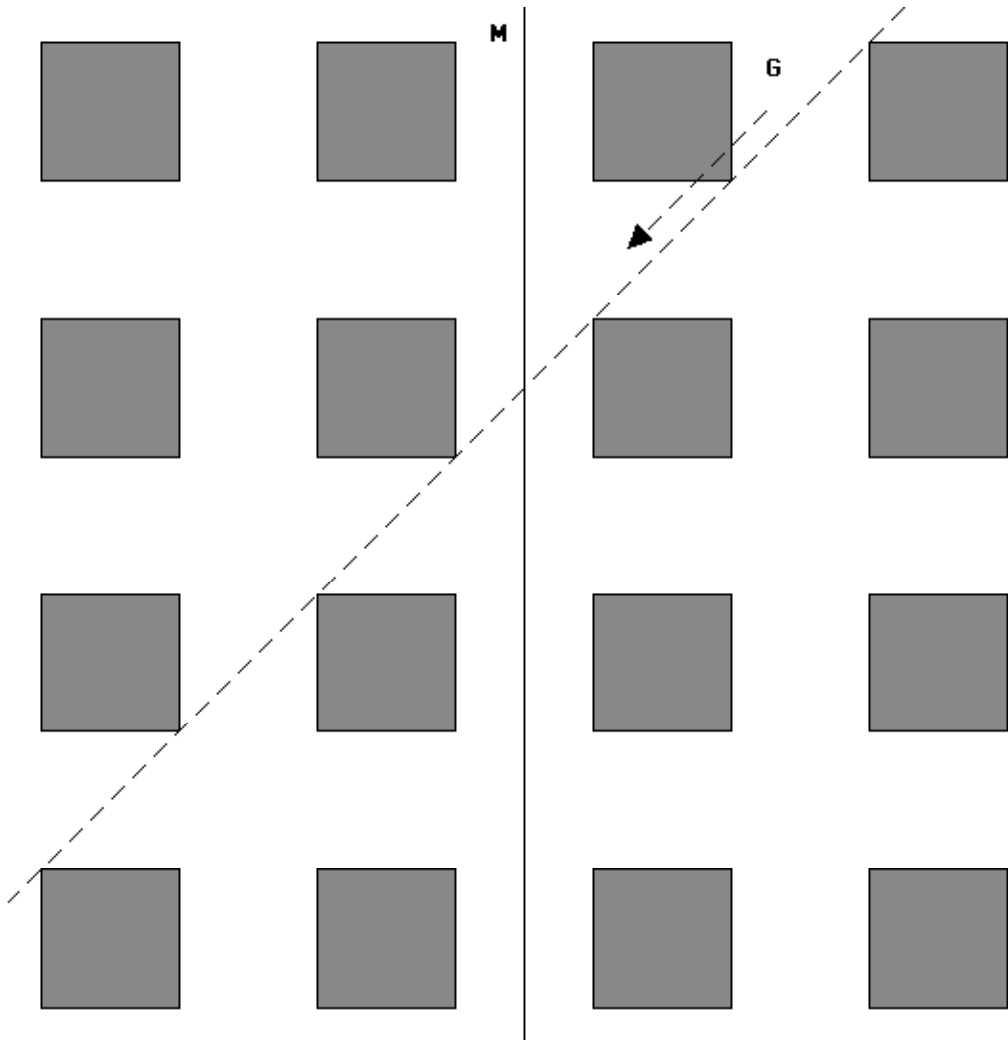
**$G * M$**  (reflection **M** followed by glide reflection **G**)

(5)



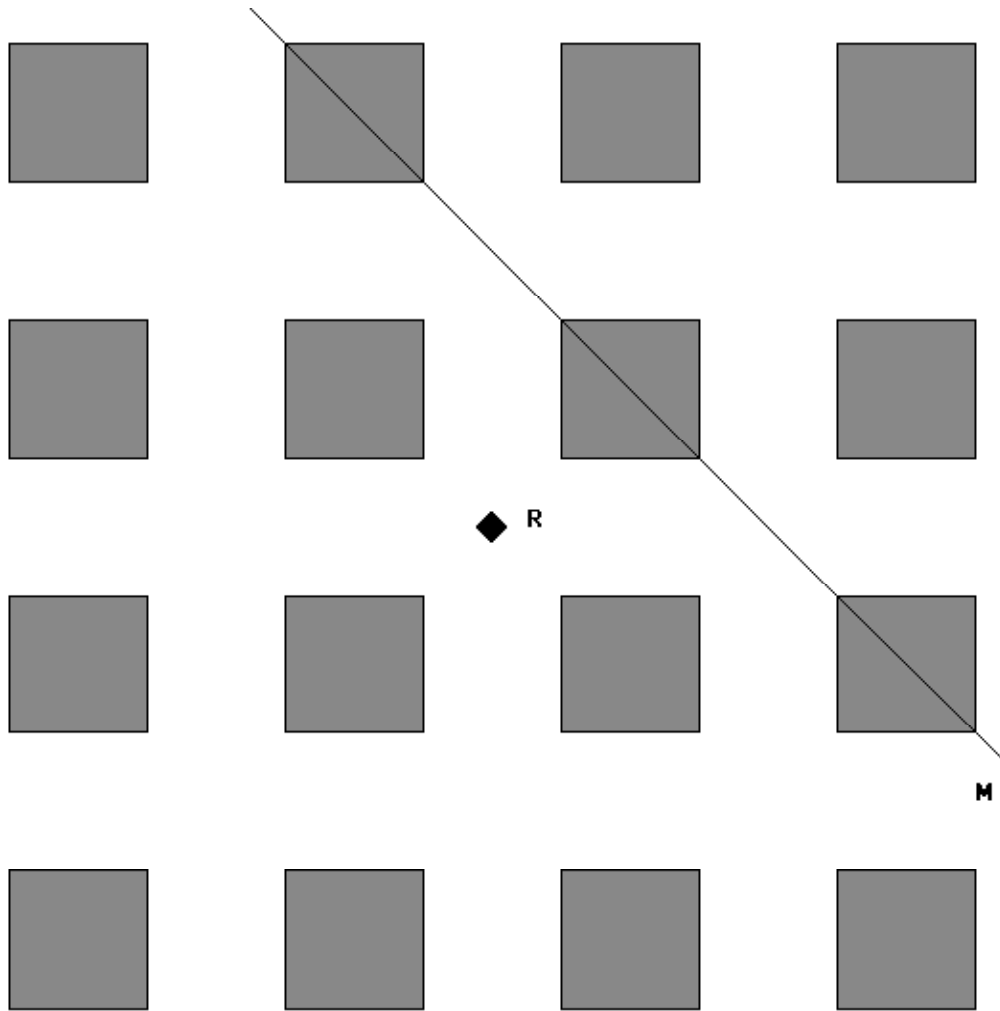
$G * g$  (glide reflection  $g$  followed by glide reflection  $G$ )

(6)



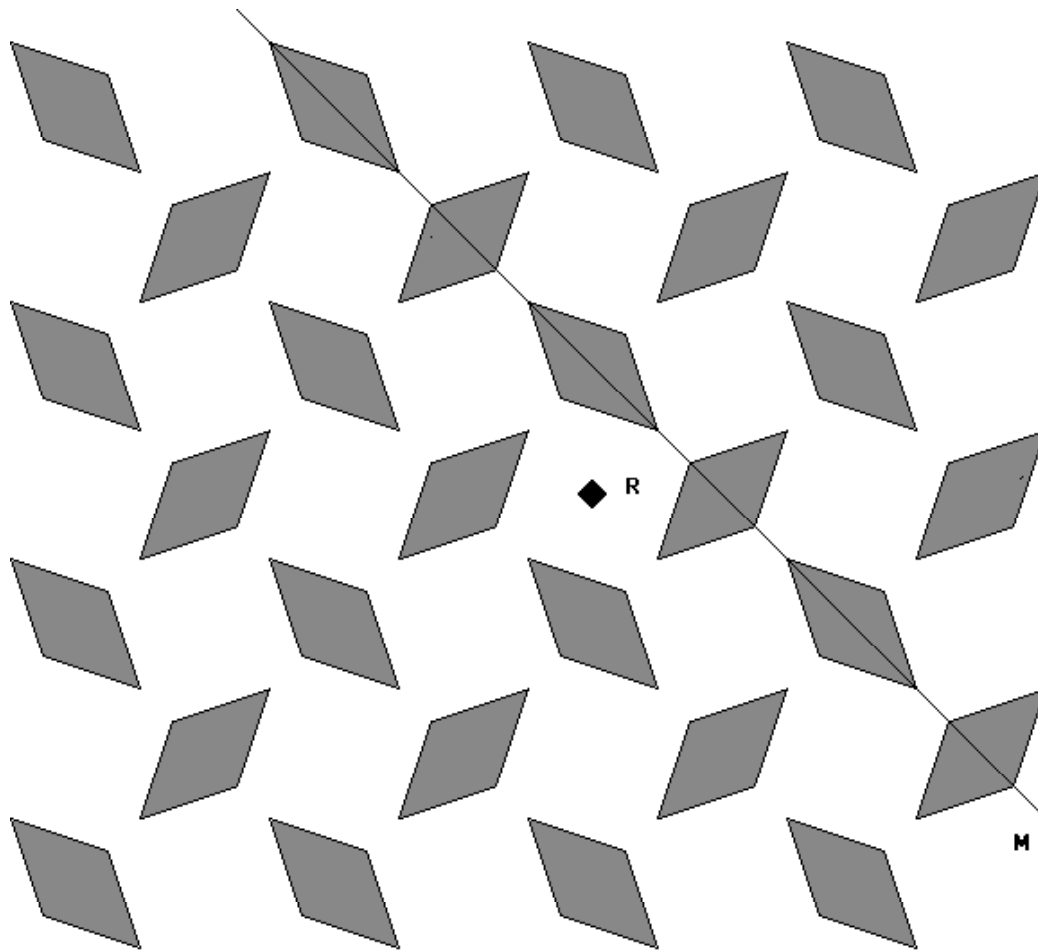
**G\*M** (reflection **M** followed by glide reflection **G**)

(7)



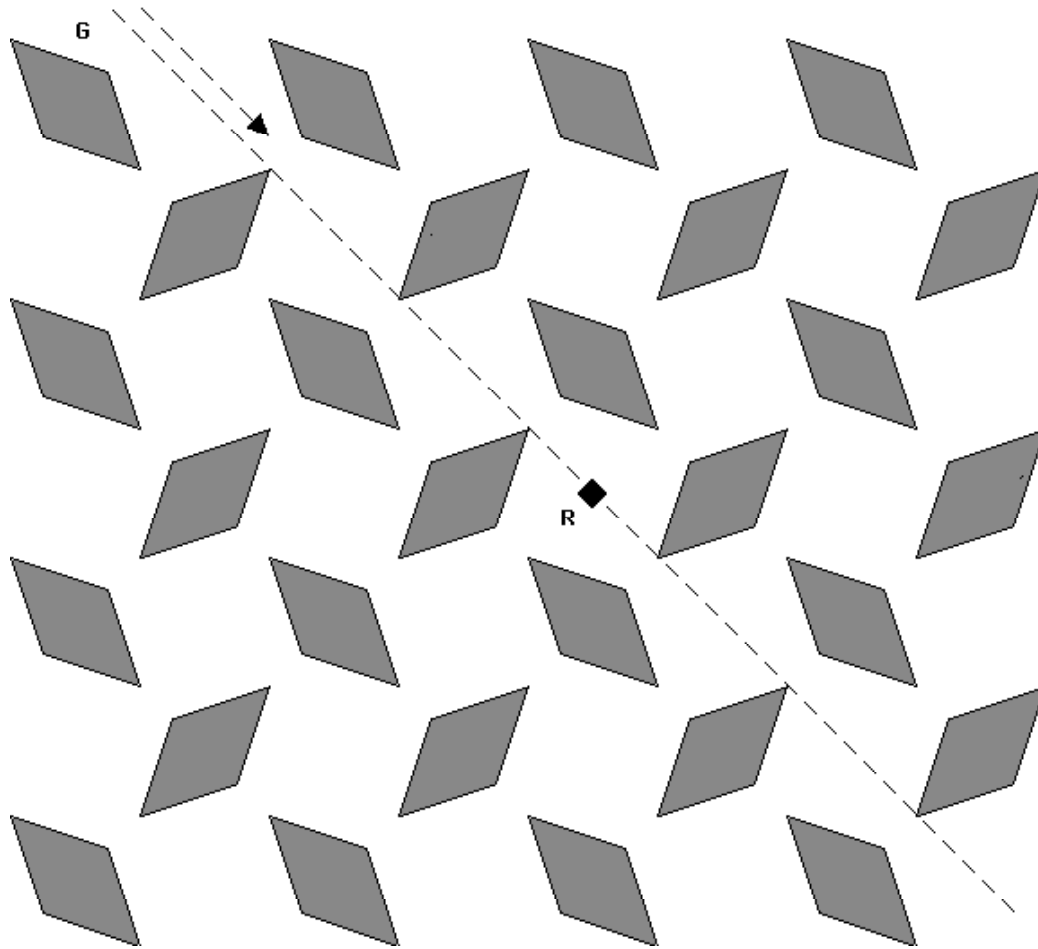
$R * M$  (reflection  $M$  followed by counterclockwise  $90^0$  rotation  $R$ )

(8)



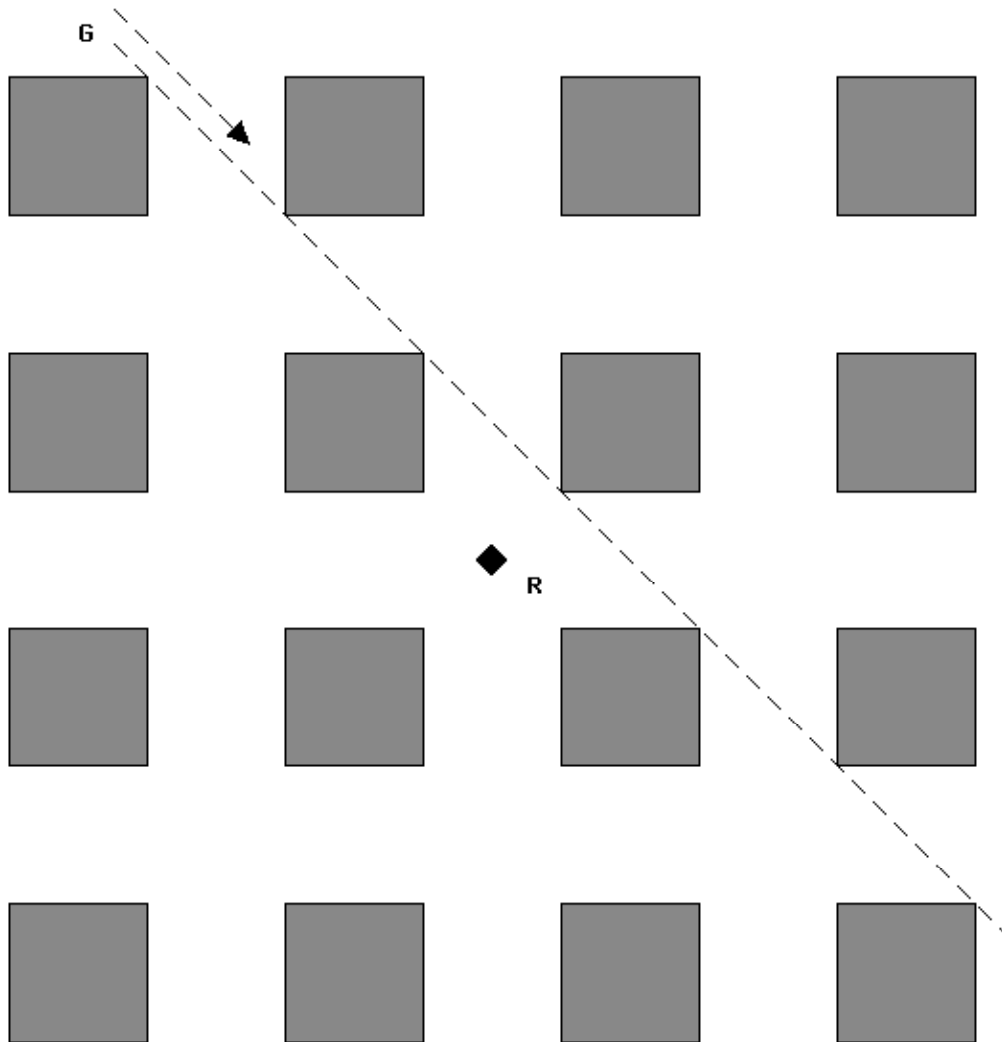
$R * M$  (reflection  $M$  followed by counterclockwise  $90^\circ$  rotation  $R$ )

(9)



**$G \circ R$**  (clockwise  $90^\circ$  rotation **R** followed by glide reflection **G**)

(10)



$\mathbf{G}*\mathbf{R}$  (clockwise  $90^0$  rotation  $\mathbf{R}$  followed by glide reflection  $\mathbf{G}$ )