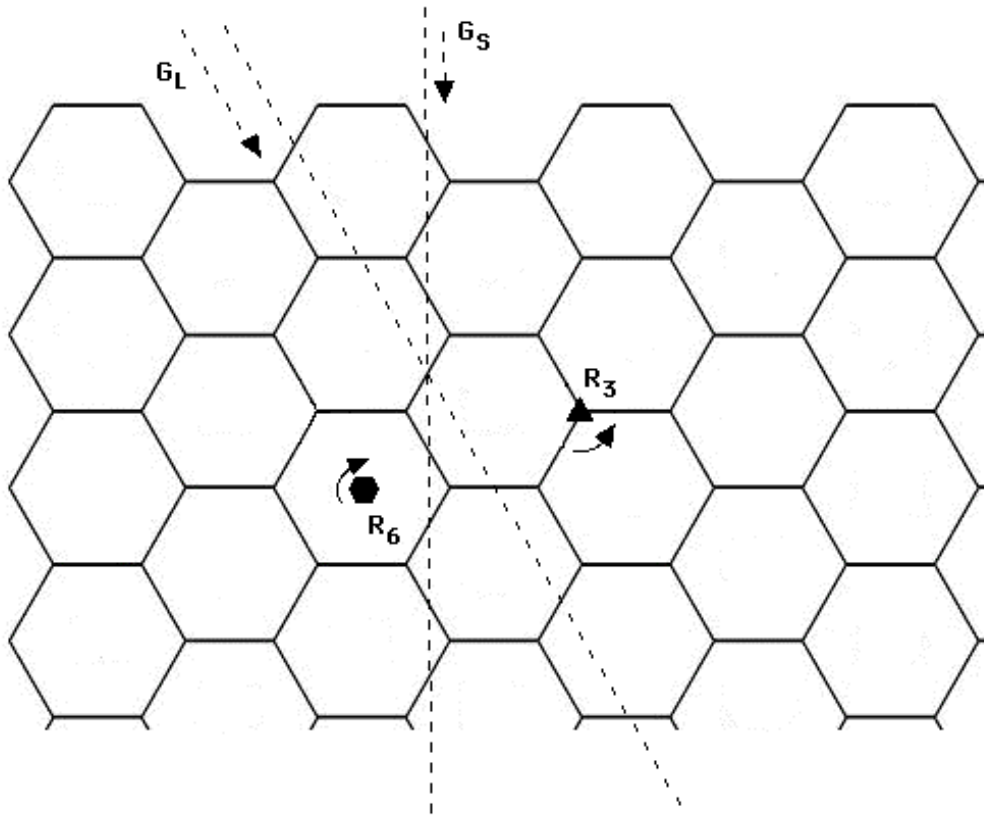
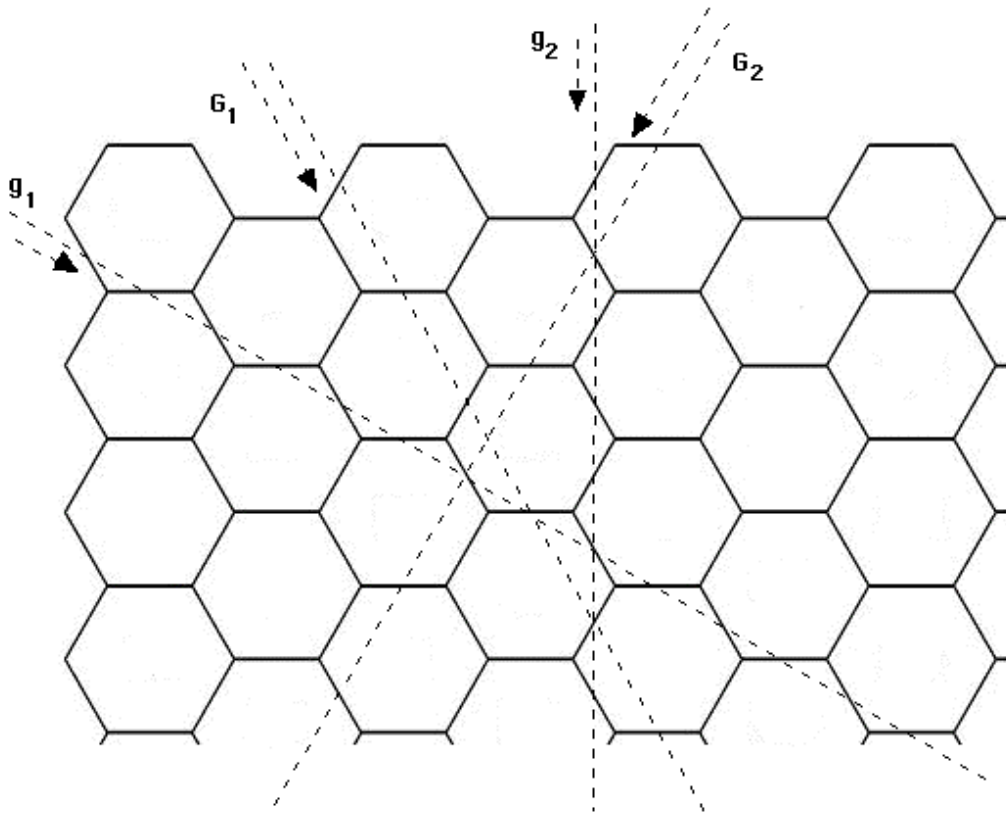


MAT 203 -- Homework #7

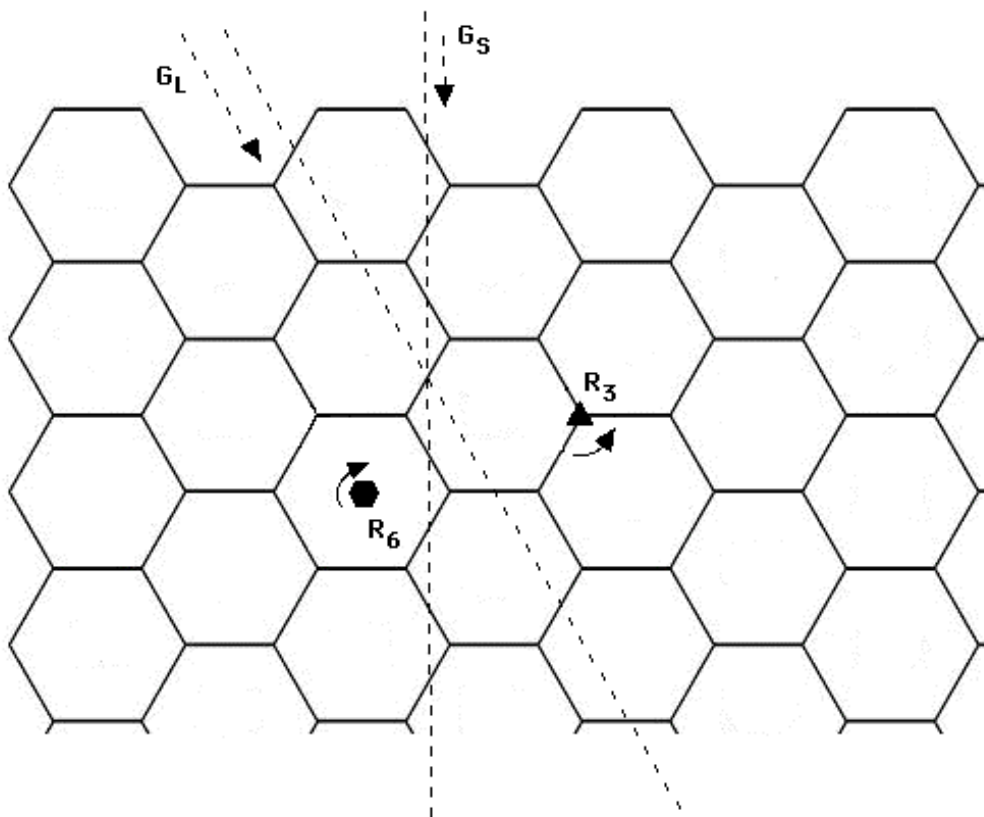
(1) Determine the compositions $R_6 * G_L$, $R_3 * G_S$, $R_6 * G_S$, $R_3 * G_L$



(2) Determine the compositions $\mathbf{g}_1 * \mathbf{G}_1$, $\mathbf{g}_1 * \mathbf{g}_2$, $\mathbf{g}_1 * \mathbf{G}_2$, $\mathbf{G}_1 * \mathbf{G}_2$



(3) Determine the images $R_6[G_L]$, $G_S[R_3]$, $R_3[R_6]$, $G_L[G_S]$



(4) Classify the following patterns:

(a)

[Peter S. Stevens, *Handbook of Regular Patterns*, Fig. 35.2b, p. 315]

(b)

[Peter S. Stevens, *Handbook of Regular Patterns*, Fig. 30.3c, p. 267]

(c)

[Peter S. Stevens, *Handbook of Regular Patterns*, Fig. 31.4b, p. 275]

(d)

[Peter S. Stevens, *Handbook of Regular Patterns*, Fig. 36.7b, p. 329]