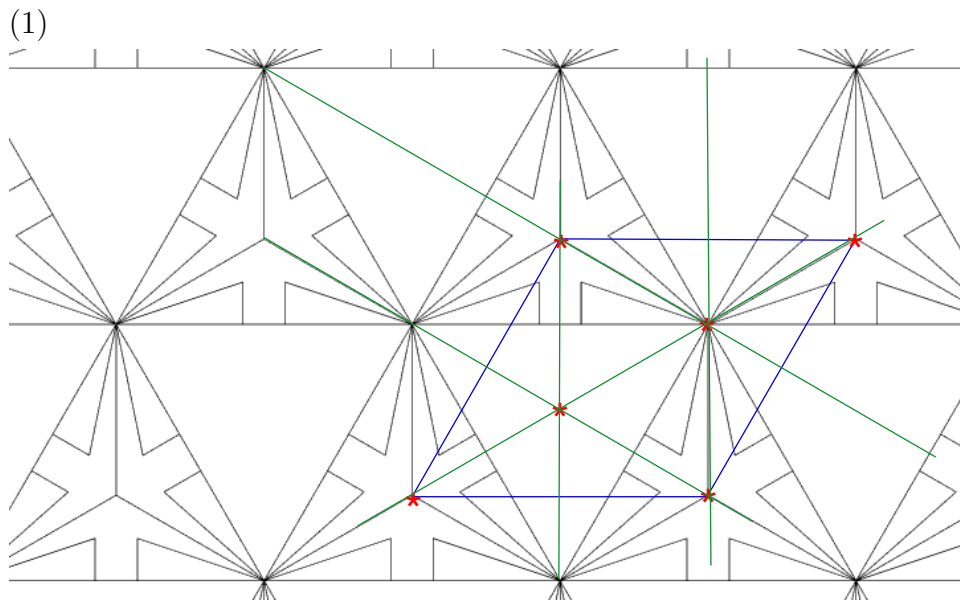
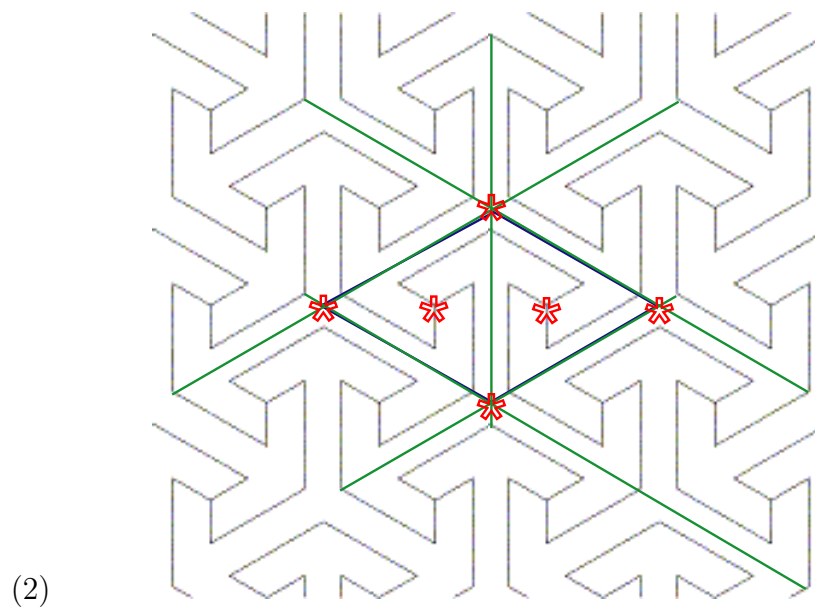


The following are wallpaper patterns. For each one, do the following:

- Draw a rhombic or rectangular fundamental region for the translations. If there are 6-centers in the pattern, base your fundamental region at a 6-center. If there are 4-centers in the pattern, base your fundamental region at a 4-center. If the only centers are 3-centers, and if there are lines of symmetry, base your fundamental region at a 3-center on a line of symmetry.
- Indicate all centers in the fundamental region (including its boundary). Use a color code or shape code to show what kind of center it is.
- Draw in all lines of symmetry that meet the fundamental region (including its boundary) in more than one point.
- If there is a glide reflection but no reflections, indicate the axis of the glide reflection by a dashed line.
- Write the name of the group below the pattern.

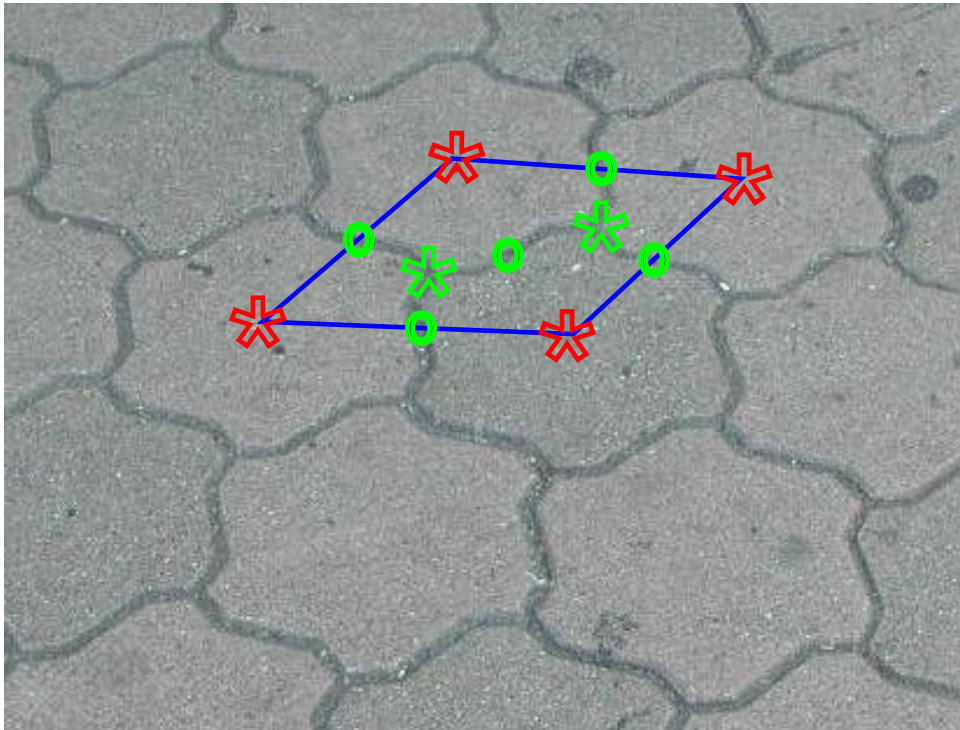


Here, the blue lines bound the fundamental region for translations. The green lines are lines of symmetry. The red asterisks are 3-centers. The group is \mathcal{W}_3^1 .



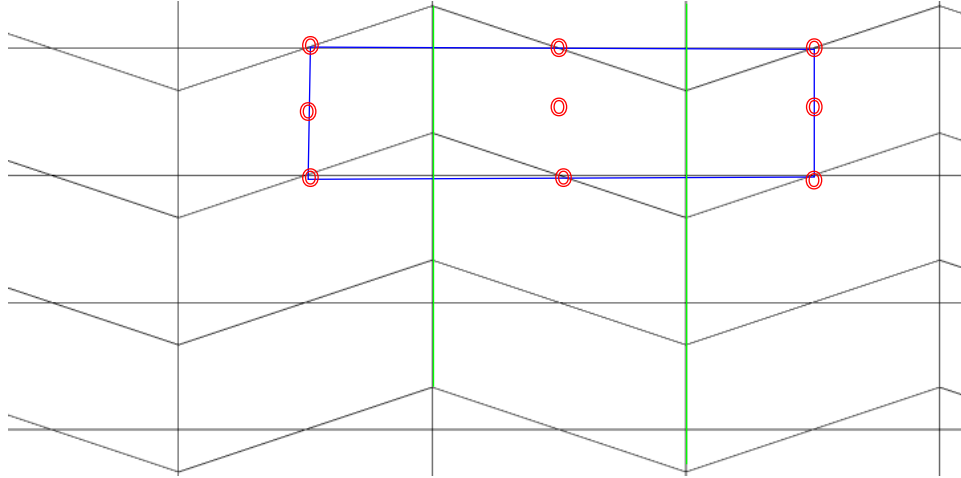
Here, the blue lines bound the fundamental region for translations. The green lines are lines of symmetry. The red asterisks are 3-centers. The group is \mathcal{W}_3^2 .

(3)



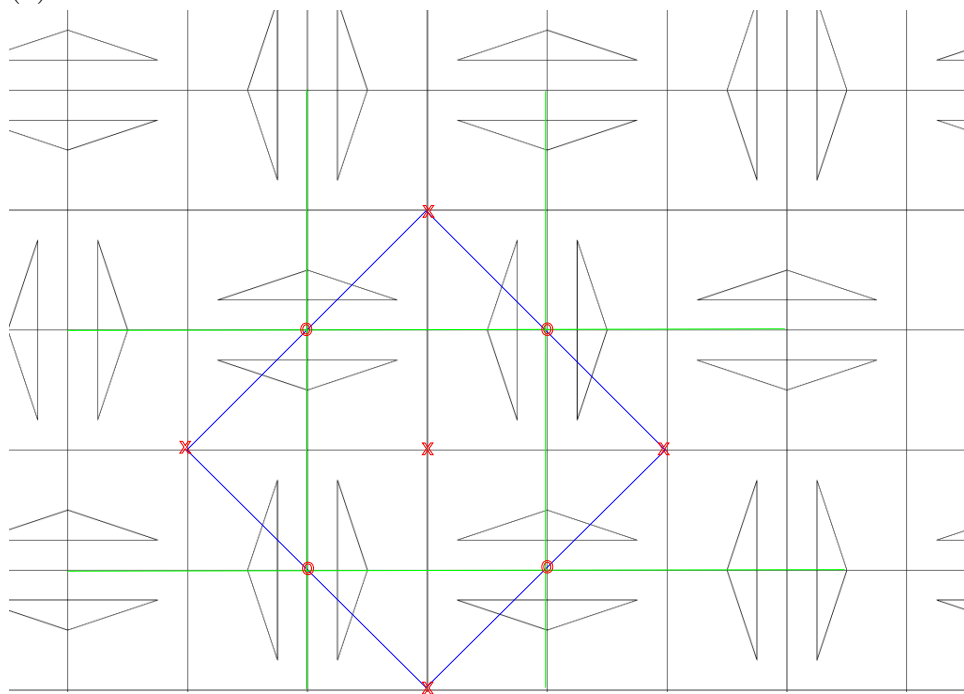
Here, the blue lines bound the fundamental region for translations. There are no lines of symmetry. The red asterisks are 6-centers. The green asterisks are 3-centers. The green o's are 2-centers. The group is \mathcal{W}_6 .

(4)



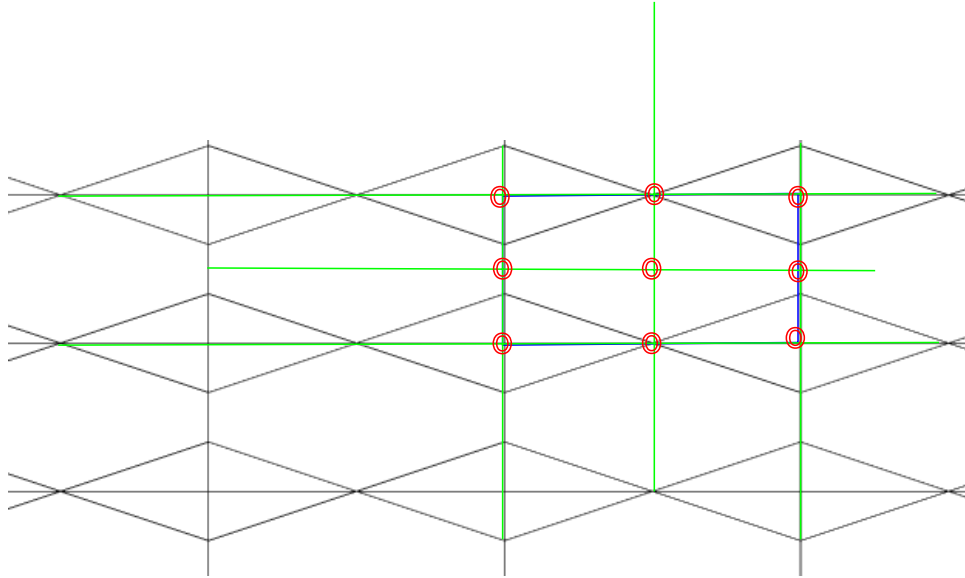
Here, the blue lines bound the fundamental region for translations. The green lines are lines of symmetry. The red o's are 2-centers. The group is \mathcal{W}_2^3 .

(5)



Here, the blue lines bound the fundamental region for translations. The green lines are lines of symmetry. The red x's are 4-centers. The red o's are 2-centers. The group is \mathcal{W}_4^2 .

(6)



Here, the blue lines bound the fundamental region for translations. The green lines are lines of symmetry. The red o's are 2-centers. The group is \mathcal{W}_2^2 .