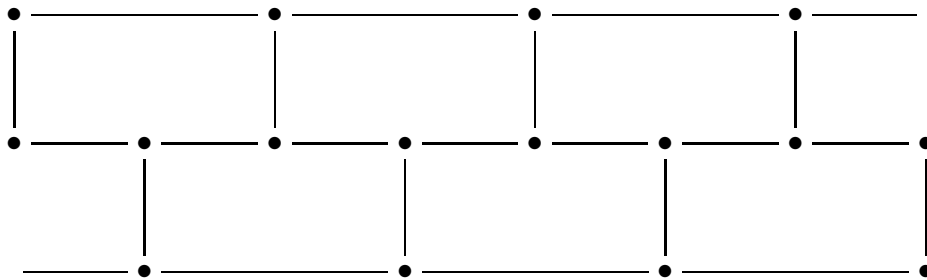


The following are frieze patterns. On each one, indicate the following with colored ink:

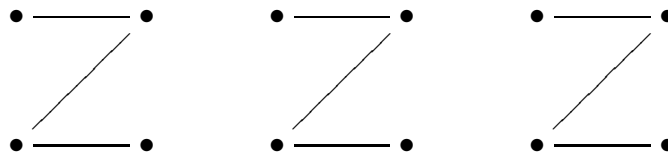
- The shortest translation, τ_y , that preserves the pattern.
- All points of symmetry.
- All lines of symmetry.
- A fundamental region, R , for \mathcal{T} .
- A fundamental region, S for \mathcal{F} .

1. A brick pattern:



- a) Is there a glide reflection whose square is τ_y ?
- b) Is there a glide reflection whose square is τ_{2y} ?
- c) What is the isotropy subgroup of a point, A , of symmetry, provided such exists?
- d) Which of the seven listed groups is \mathcal{F} ?

2.



- a) Is there a glide reflection whose square is τ_y ?
- b) Is there a glide reflection whose square is τ_{2y} ?
- c) What is the isotropy subgroup of a point, A , of symmetry, provided such exists?
- d) Which of the seven listed groups is \mathcal{F} ?

