

Isometries are the transformations of the plane which preserve distance.

Translation

Rotation

Reflection

... and any combination of those

Isometries of the Plane, p. 3, 5

Glide Reflection

Isometries of the Plane, p. 7

Composition (use GeoGebra)

## Composition

Two reflections (parallel)

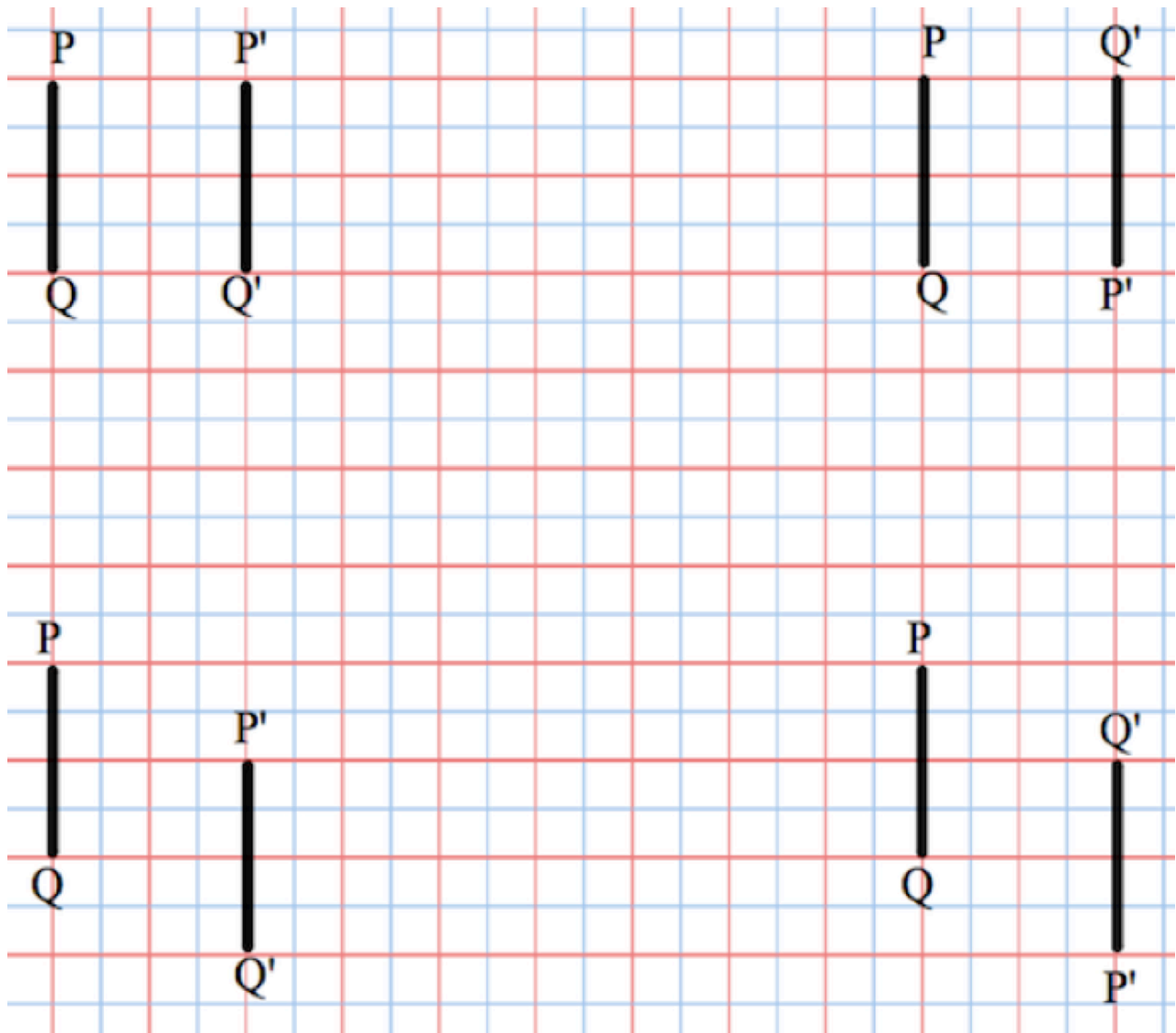
Two reflections (intersecting)

How Many Points?

One?

Two?

# Isometries of the Plane, p. 8



Three points

How many reflections?



Isometries of the Plane, p. 12

One, Two, or Three Reflections