**Definitions**

**1. A translation of a set of points in a plane . . .**

 • moves points the same distance and direction along lines

that are parallel to each other

**2. A rotation of a set of points in a plane . . .**

• moves points the same direction along concentric circles

 and through the same angle of rotation

**3. A reflection of a set of points in a plane . . .**

• moves points across a specified line of reflection so that the

 line of reflection is the perpendicular bisector of each line segment

 connecting corresponding pre-image and image points

 **4. Translations, rotations and reflections are rigid motion transformations because . . .**

• they preserve distance and angle measure