**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