

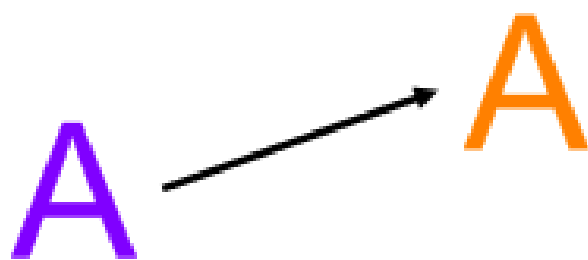
Chapter 9
Transformations
and
Symmetry

1. Transformation

an operation that maps or moves
a preimage onto an image

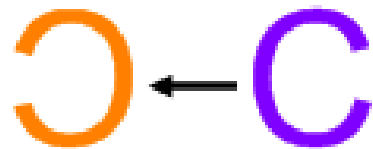
2. Translation

mapping a preimage onto an image
by sliding along a straight line



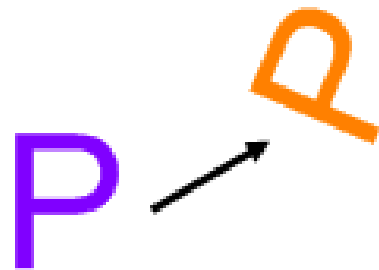
3. Reflection

mapping a preimage onto an image by using a straight line that acts like a mirror



4. Rotation

mapping a preimage onto an image by turning a figure around a fixed point



5. Dilation

mapping a preimage onto
an image by reducing or
enlarging the preimage

