4.3 Translations

Changing the location
↪ not changing size
↪ not changing orientation

Slide

C (4,6)

△ ABC
L, R = x
U, D = y

A (0,1)   B (5,1)

A shift right 1   A' (3,1)
A shift down 2   A' (2,-1)
A shift Left 3 up 1   A'(-1, 2)
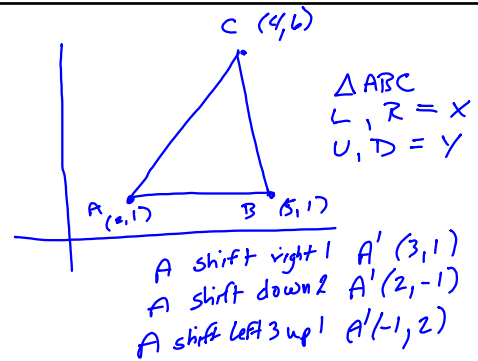
Translations in Geometry
Notation
describes the change in (x, y)

$(x, y) \longrightarrow (x+a, y+b)$

shift left 3
$(x, y) \longrightarrow (x-3, y)$
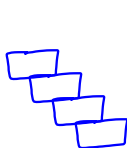
shift right 2 down 4
$(x, y) \longrightarrow (x+2, y-4)$

$P(4, 2)$ $(x, y) \longrightarrow (x-1, y+2)$
$P'(3, 4)$

$P(-2, 5)$ $(x, y) \longrightarrow (x+7, y-7)$
$P'(5, -2)$

Translational Symmetry

Checker board
Black Squares

cinder blocks