

Unit 4 WWK

Translation	to slide a figure left, right, up or down in the coordinate plane	
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Oct 16-9:21 AM

TOC page 64 Translations

Name: (x, y)

$(x-3, y+4)$

SLIDE

An image and its pre-image before a translation are... **CONGRUENT**

SLIDE

Translate the figure up 4 units and left 3 units.

Identify key points in the **pre-image**

2

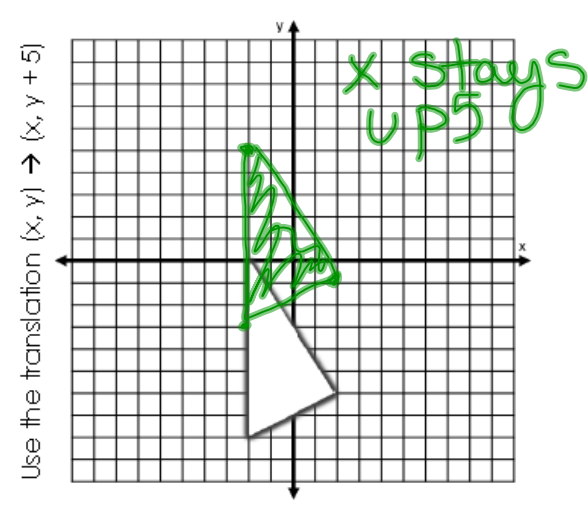
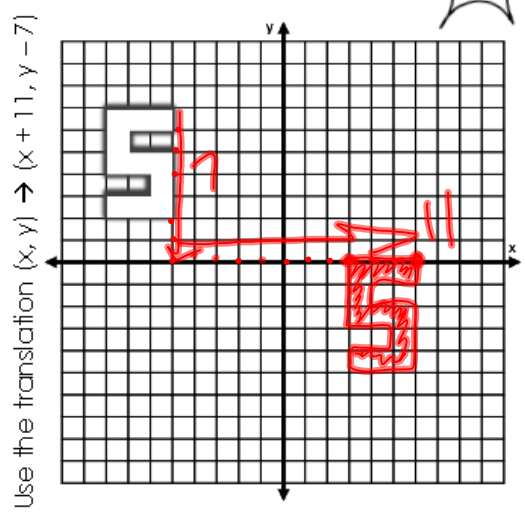
Add or subtract from each coordinate as directed to get the resulting **image**.

notation **pre-image** (x, y)

image $(x \pm \#, y \pm \#)$

Oct 16-8:05 AM

SLIDE TRANSLATION



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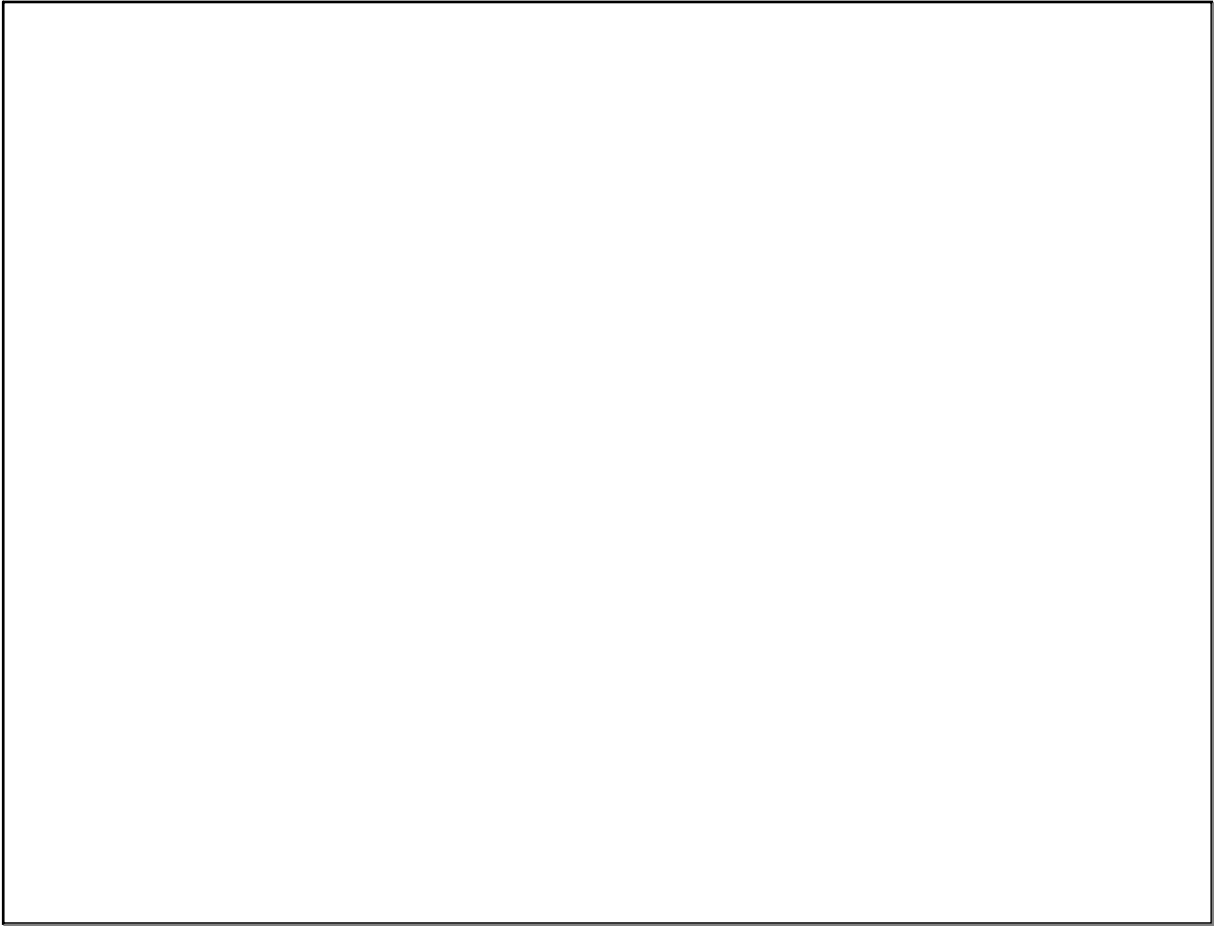
Oct 16-8:10 AM

Living Room Furniture Layout (Translation)

In order to maximize their free space, the Harrisons decide to move the bookcases and TV stand back 2 feet until the bookcases are against the wall. In additions, they want to have 5.5 feet of space between the front of the TV stand and the coffee table and keep the 2.5 feet of space between the coffee table and sofa. The end tables will move with the sofa so that they stay aligned. Find the four corner points of each piece of furniture in the new setup:

Piece of Furniture	Corner 1 Coordinates	Corner 2 Coordinates	Corner 3 Coordinates	Corner 4 Coordinates
End Table				
Sofa				
End Table				
Coffee Table				
Bookcase				
TV Stand				
Bookcase				

Oct 16-8:11 AM



Oct 16-12:59 PM