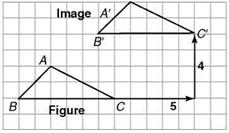
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Reteaching 3-6**

A *translation* moves every point of a figure   
the same distance in the same direction.

Triangle *ABC* is translated 5 units to the right   
and 4 units up. The *image* of ∆*ABC* is ∆*A'B'C*.

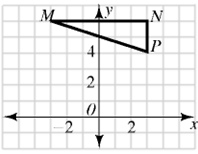
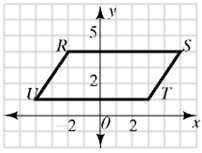
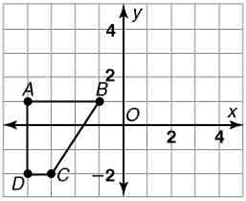
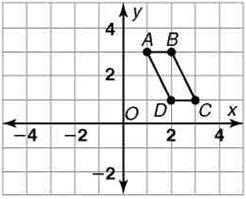
You can write a rule to describe a translation in   
the coordinate plane.

T<5, 4> of ΔABC

Give the direction that each vector represents.

1. <2, -8> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. <-3, -5> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. <0, 6> \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

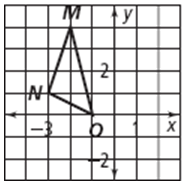
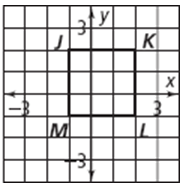
Graph the image using the given translation. Write the coordinates of the image’s points.

1. T<3, -6> of ΔMNP 5. T<-2, 4> of RSTU
2. T<3, 1> of ABCD 7. T<-4, -3> of ABCD

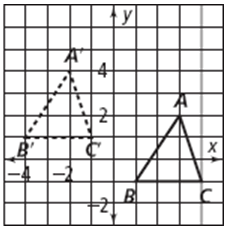
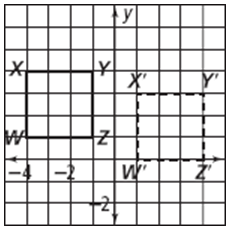
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class\_\_\_\_\_\_\_\_

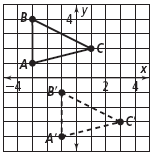
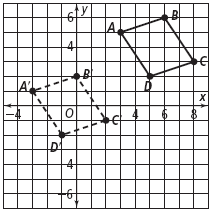
**Worksheet 3-6**

Graph the image using the given translation. Write the coordinates of the image’s points.

1. T<3, -1> of ΔMNO 2. T<-2, -2> of JKLM

Write the translation that was used to map the pre-image (solid figure) to the image (dashed figure).

1.  4.



1. 6.