

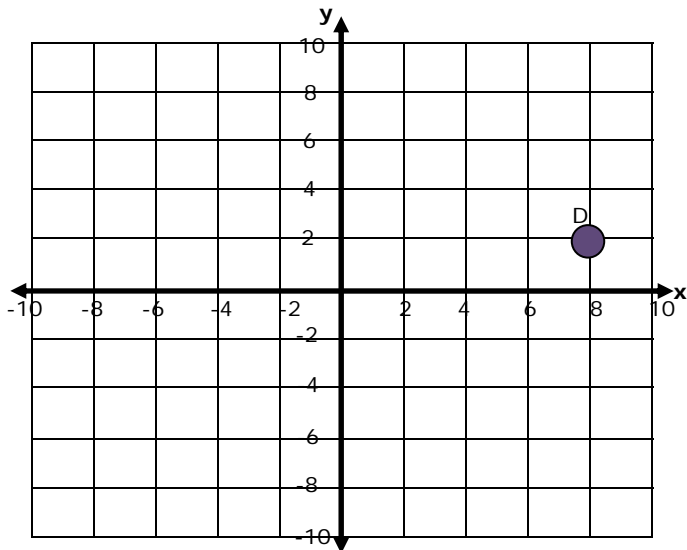
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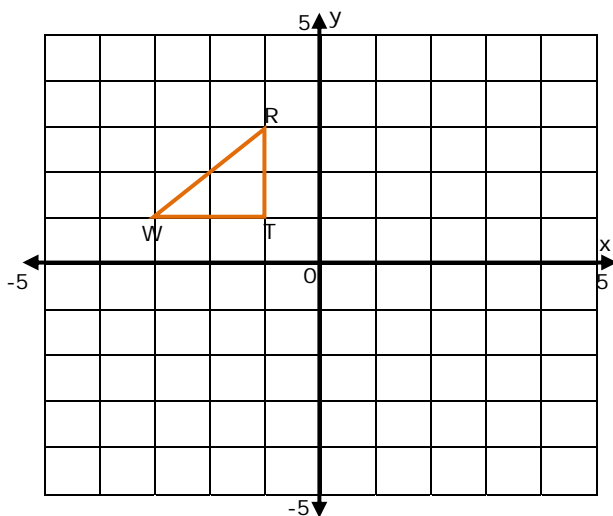
## Transformations within a Plane - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. Graph the image of D (8, 2) after a translation of 10 units to the down?



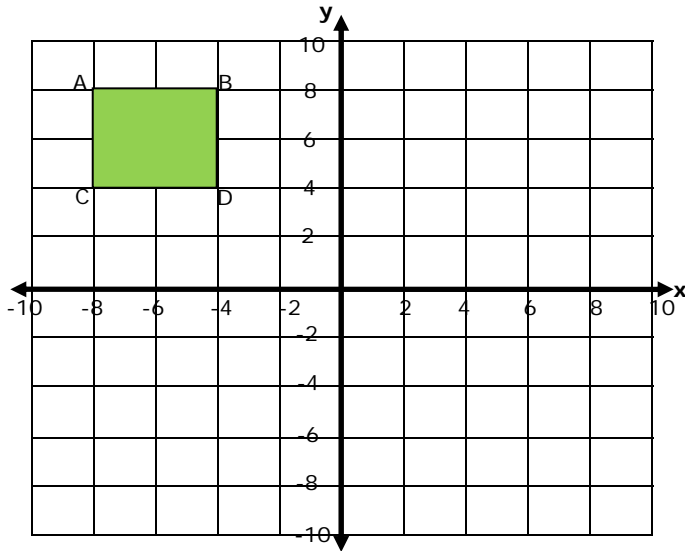
2. Write the coordinates of the vertices after a translation of 4 units to the right and 1 unit up.



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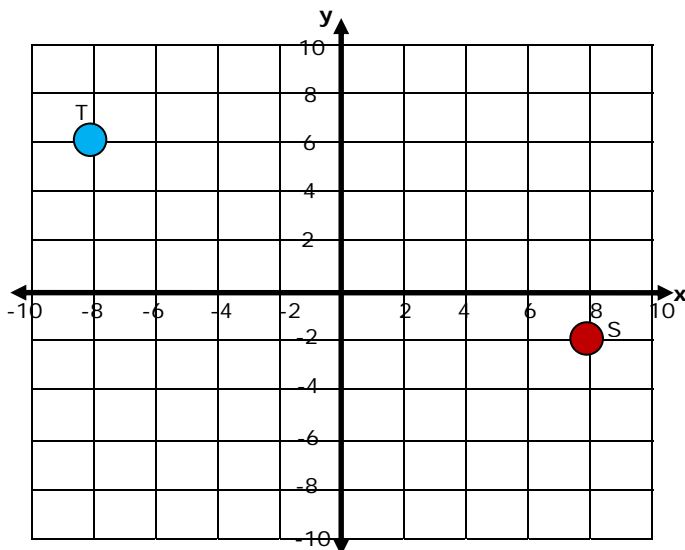
3. Graph the image of rectangle ABCD after a rotation  $180^\circ$  counter clockwise around the origin.



Solve the questions below from the graph below.

4. Graph the image of  $S(8, -2)$  After a translation 8 units up?

5. Graph the image of  $T(-8, 6)$  After a translation 14 units right?



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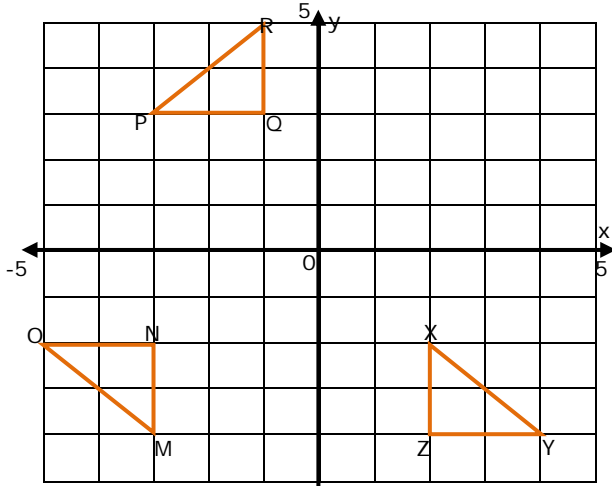
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Solve the questions below from the graph below.

6. Write the coordinates of the vertices PQR after a translation 4 unit right and 2 units down.

7. Write the coordinates of the vertices MNO after a translation 5 unit right and 1 unit up.

8. Write the coordinates of the vertices XYZ after a translation 1 unit left and 4 units up.



Solve the questions below from the graph below.

9. Graph the image of rectangle SUWV after a rotation  $90^\circ$  clockwise around the origin.

10. Graph the image of rectangle KLMN after a rotation  $270^\circ$  counter clockwise around the origin.

