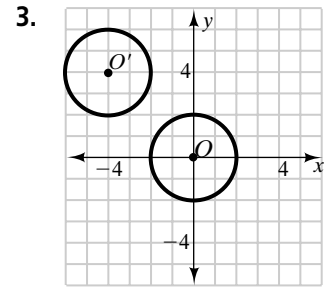
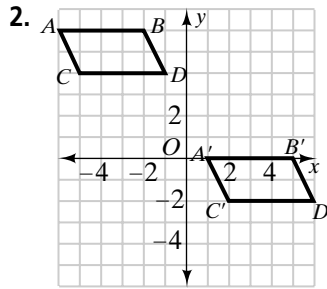
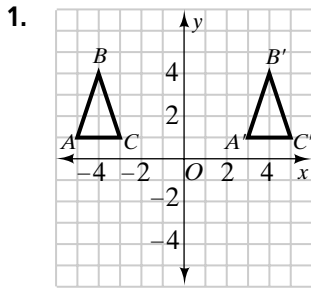


Practice 3-6

Translations

Use arrow notation to write a rule that describes the translation shown on each graph.

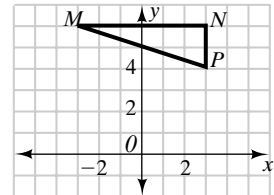


Copy $\triangle MNP$. Then graph the image after each translation. List the coordinates of each image's vertices.

4. left 2 units, down 2 units

5. right 2 units, down 1 unit

6. left 2 units, up 3 units

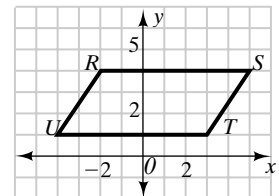


Copy $\square RSTU$. Then graph the image after each translation. List the coordinates of each image's vertices.

7. right 1 unit, down 2 units

8. left 3 units, up 0 units

9. right 2 units, up 4 units



10. A rectangle has its vertices at $M(1, 1)$, $N(6, 1)$, $O(6, 5)$, and $P(1, 5)$. The rectangle is translated to the left 4 units and down 3 units. What are the coordinates of M' , N' , O' , and P' ? Graph the rectangles $MNOP$ and $M'N'O'P'$.

11. Use arrow notation to write a rule that describes the translation of $M'N'O'P'$ to $MNOP$.

