Pre-Algebra

Name_____

TRANSFORMATIONS

Date_____ Period_____

Write a rule to describe each transformation.

1)

2)

3)

4)

5)

6)

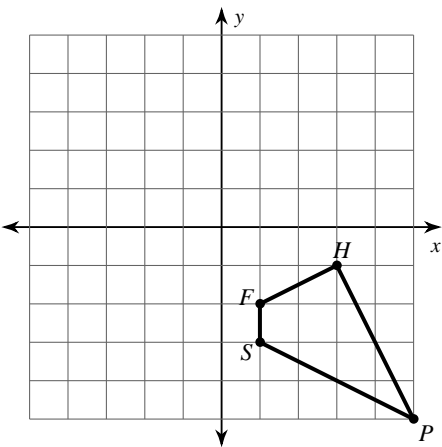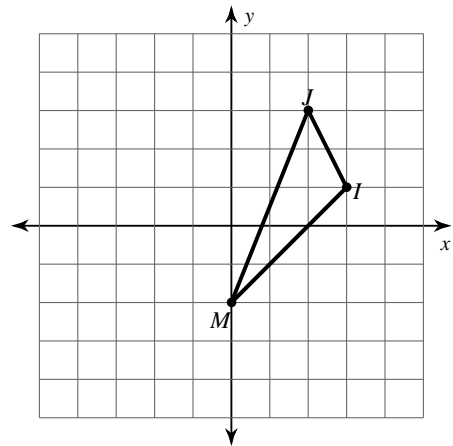**Translate the figure as indicated. Label the image using prime notation.**

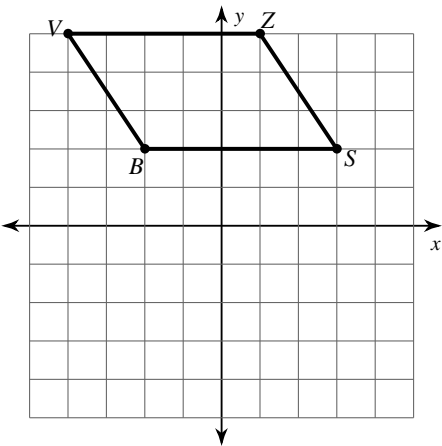7) translation: 3 units right and 3 units down

8) translation: 4 units left and 1 unit up
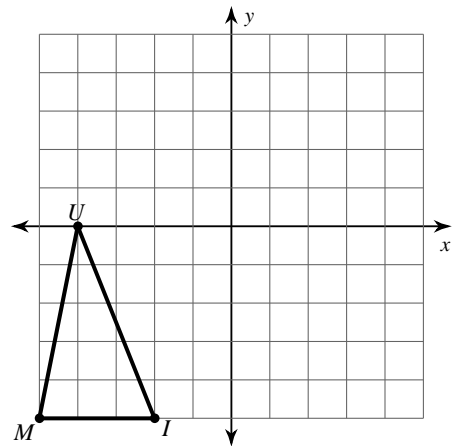
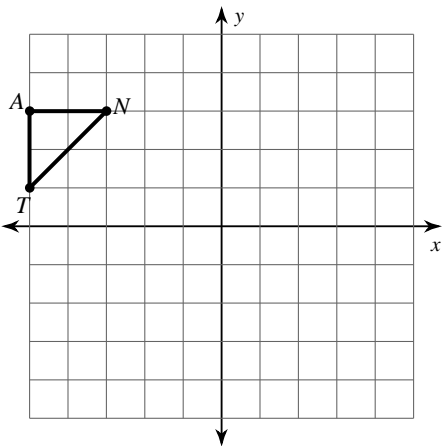9) translation: 5 units left and 2 units up

10) translation: 2 units right and 5 units down
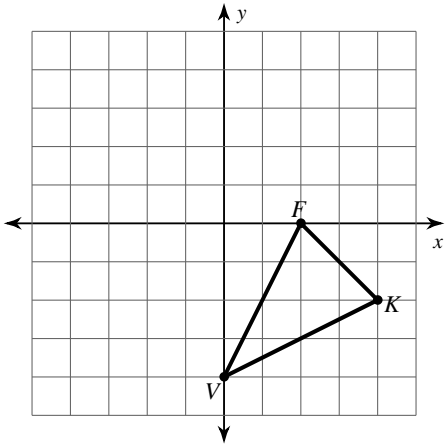
11) translation: 2 units right and 2 units up

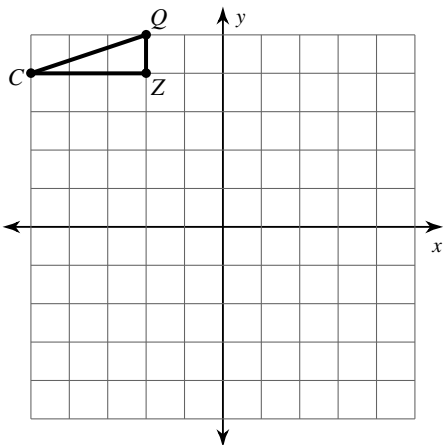12) translation: 4 units right and 1 unit up

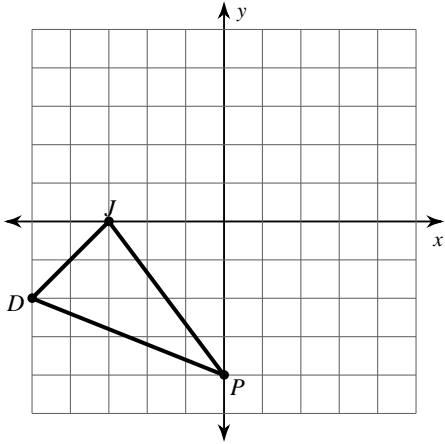**Reflect the figure as indicated. Label the image using prime notation.**

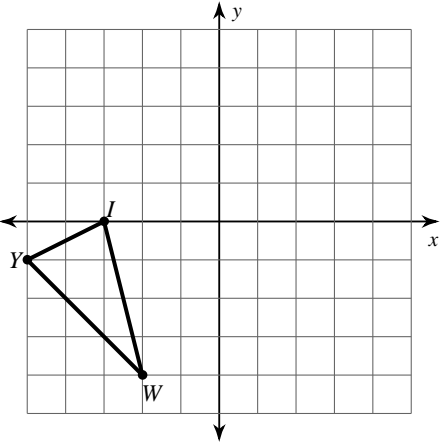13) reflection across the x-axis
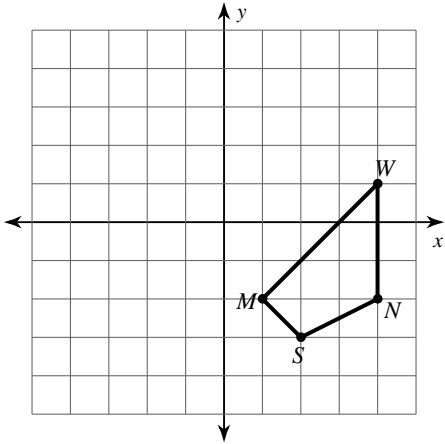
14) reflection across the x-axis

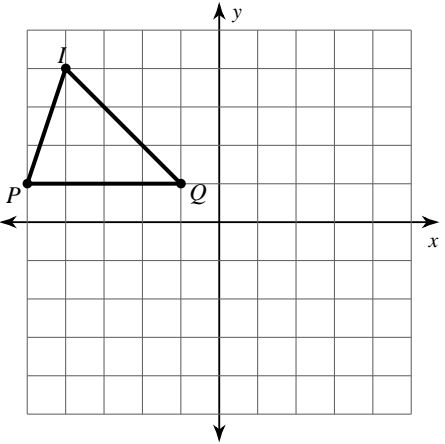15) reflection across the y-axis

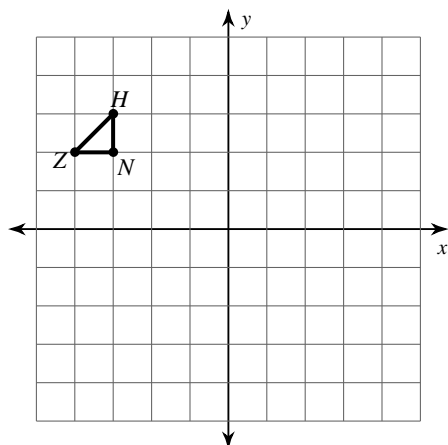16) reflection across the x-axis

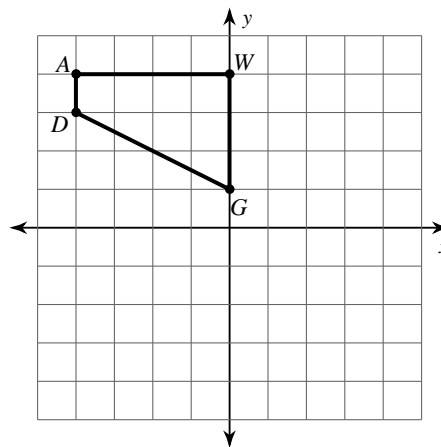17) reflection across the y-axis

18) reflection across the y-axis

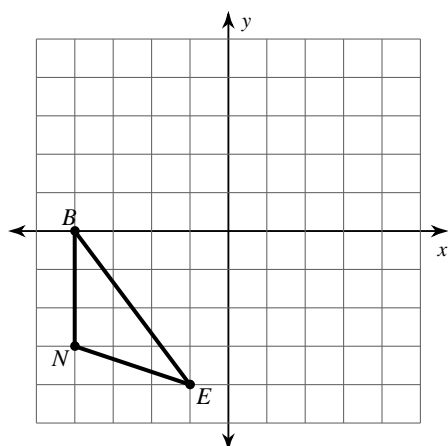**Rotate the figure as indicated. Label the image using prime notation.**
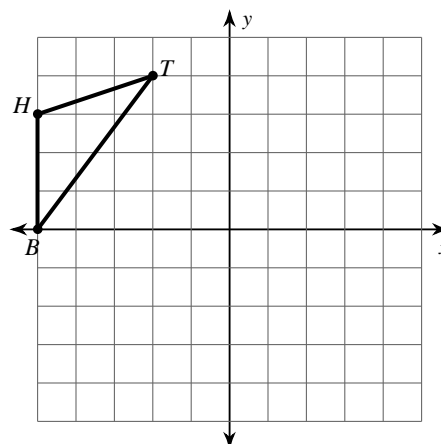
19) rotation 180° about the origin

20) rotation 90° counterclockwise about the origin

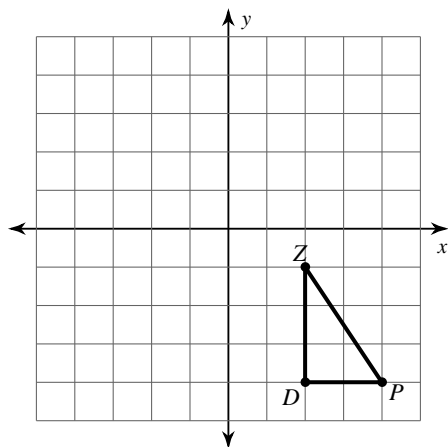21) rotation 90° counterclockwise about the origin

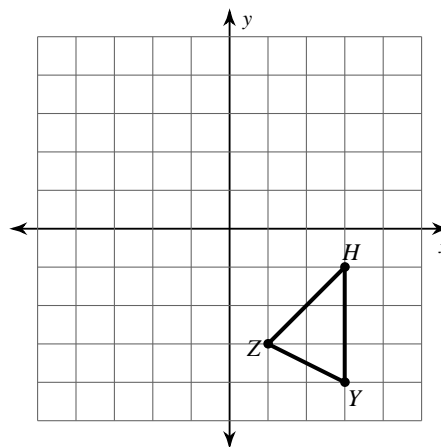22) rotation 180° about the origin

23) rotation 90° clockwise about the origin

24) rotation 180° about the origin

Name_____

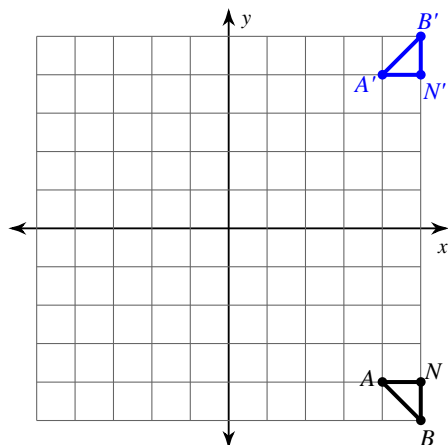# TRANSFORMATIONS
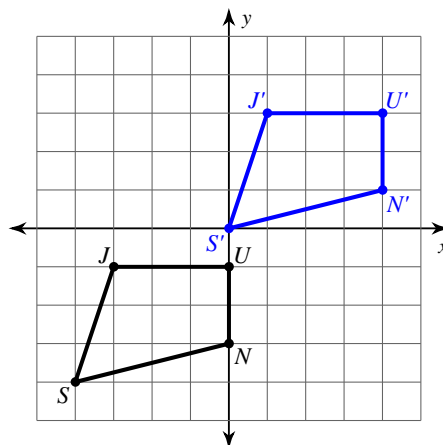
Date_____ Period_____

Write a rule to describe each transformation.
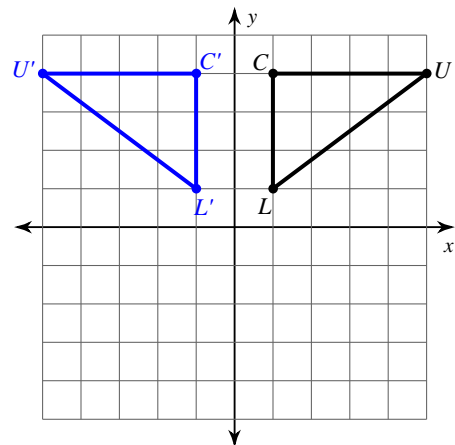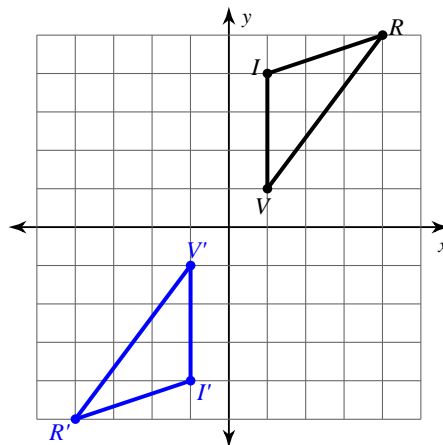
1)

reflection across the x-axis
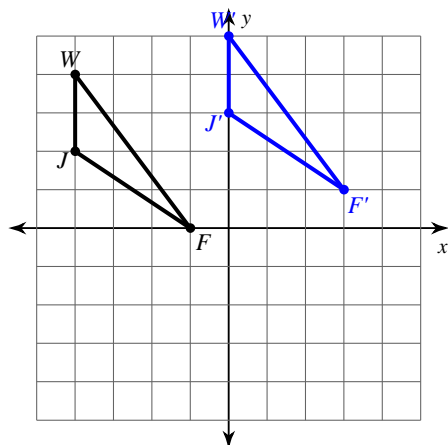
2)

translation: 4 units right and 4 units up

3)

reflection across the y-axis

4)

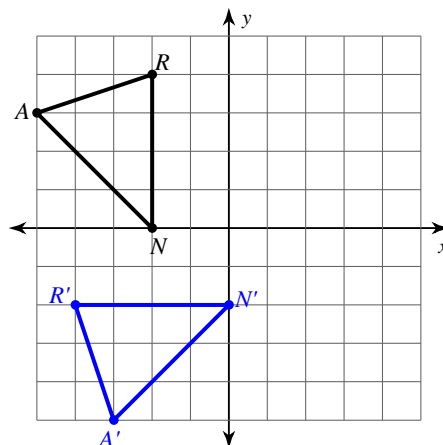rotation 180° about the origin

5)
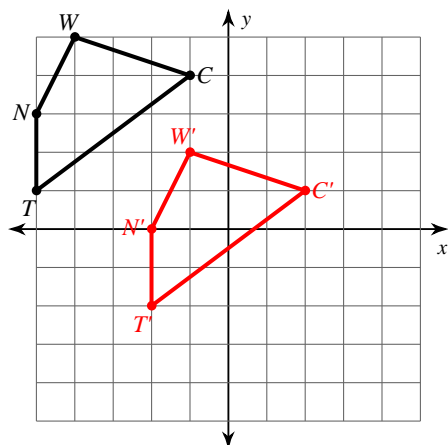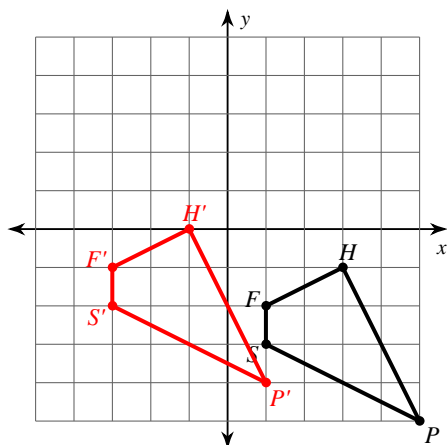
translation: 4 units right and 1 unit up

6)

rotation 90° counterclockwise about the origin

Translate the figure as indicated. Label the image using prime notation.
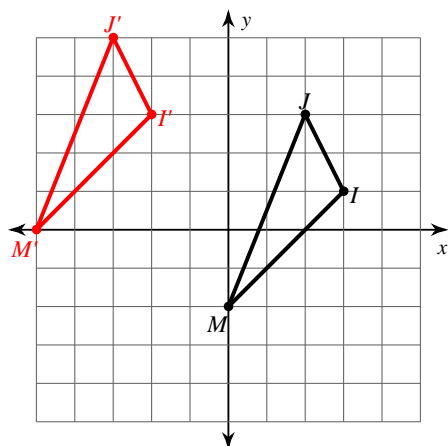
7) translation: 3 units right and 3 units down
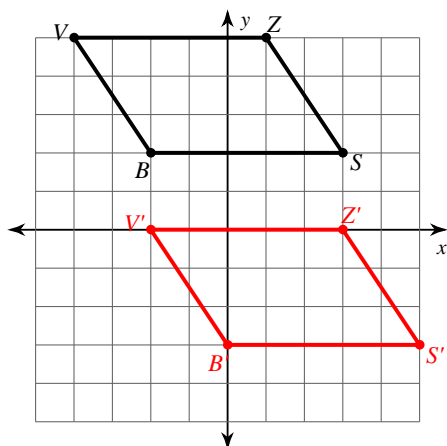

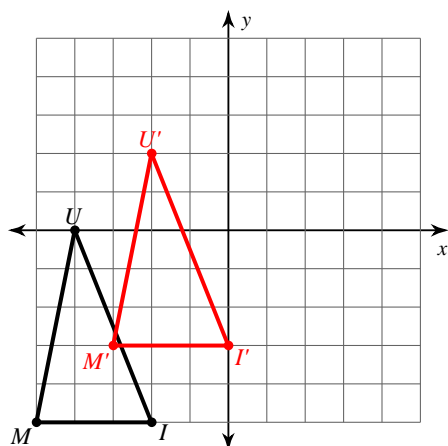8) translation: 4 units left and 1 unit up

9) translation: 5 units left and 2 units up
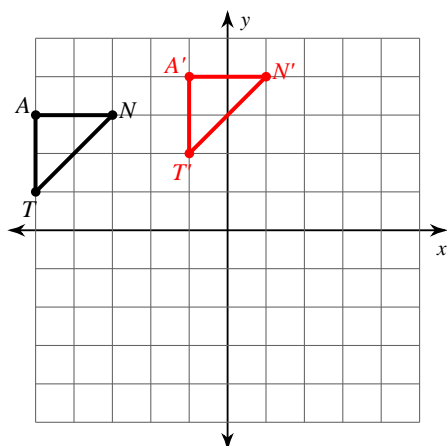

10) translation: 2 units right and 5 units down

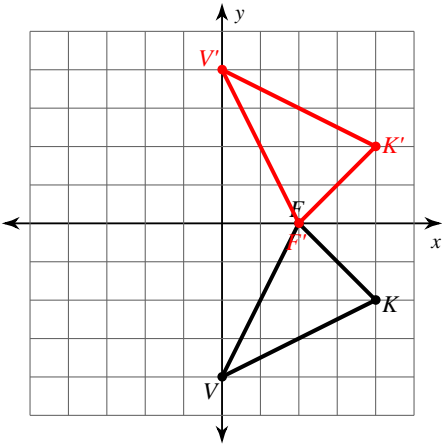

11) translation: 2 units right and 2 units up

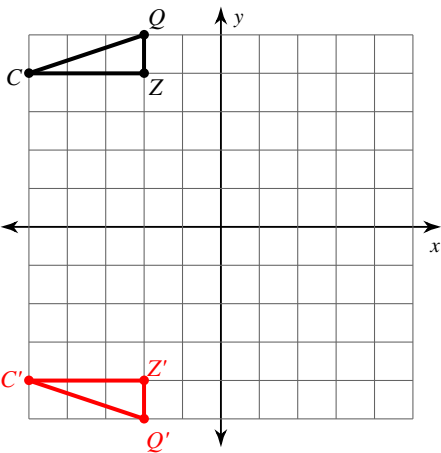12) translation: 4 units right and 1 unit up

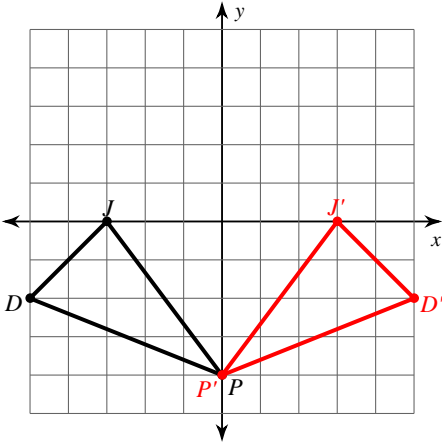**Reflect the figure as indicated. Label the image using prime notation.**

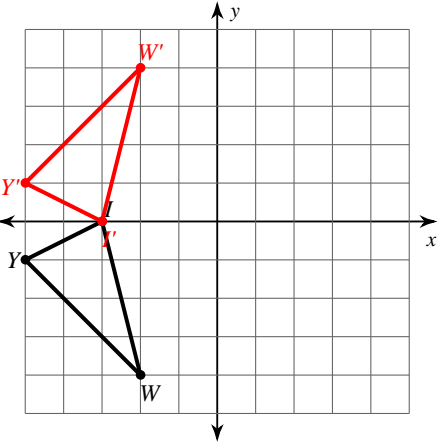13) reflection across the x-axis
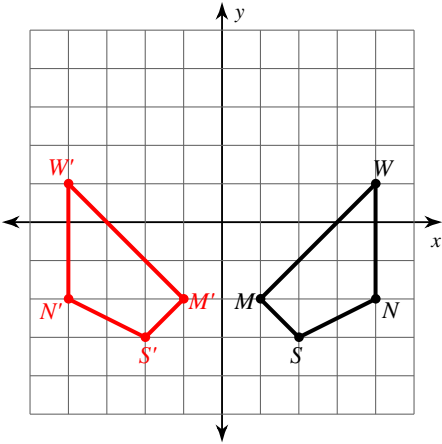

14) reflection across the x-axis
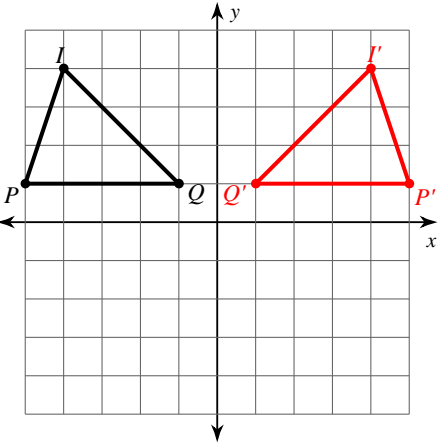

15) reflection across the y-axis

16) reflection across the x-axis

17) reflection across the y-axis
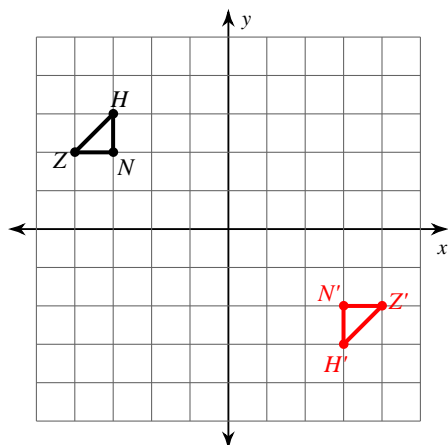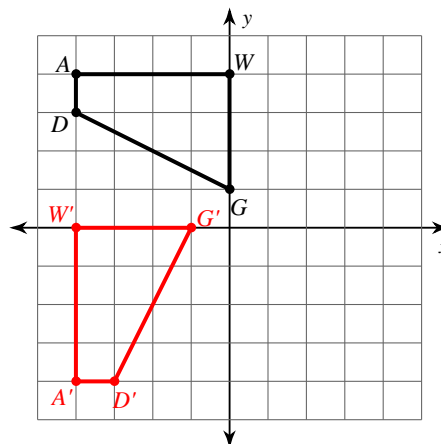

18) reflection across the y-axis

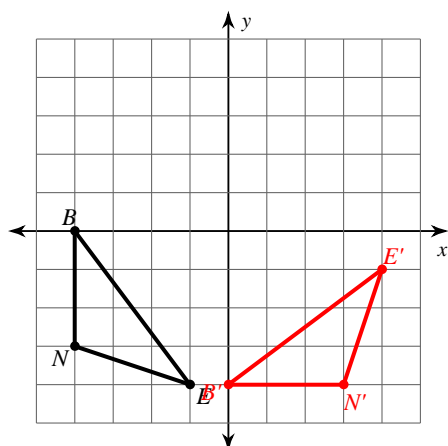**Rotate the figure as indicated. Label the image using prime notation.**
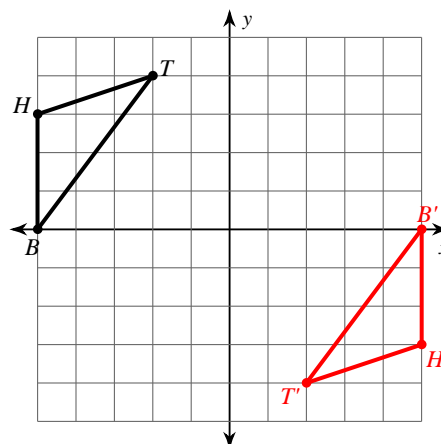
19) rotation 180° about the origin
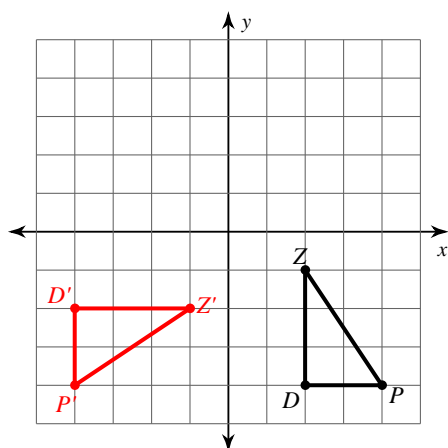

20) rotation 90° counterclockwise about the origin

21) rotation 90° counterclockwise about the origin

22) rotation 180° about the origin

23) rotation 90° clockwise about the origin

24) rotation 180° about the origin