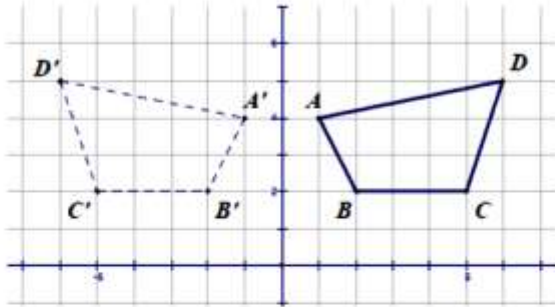


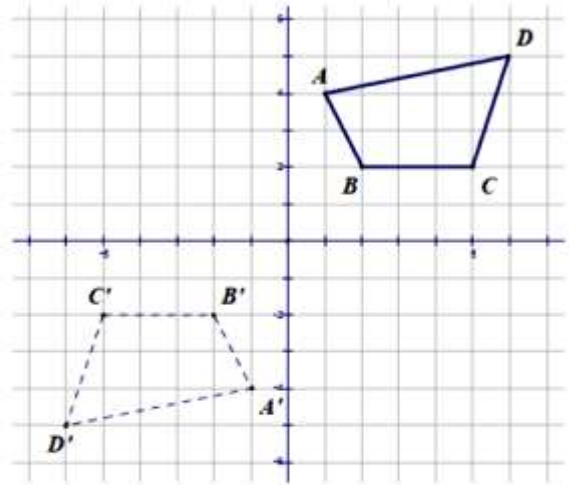
Geometry Unit 1 Transformations
Day 1 to Day 13 Review

Name: _____
 Date: _____ Hour: _____

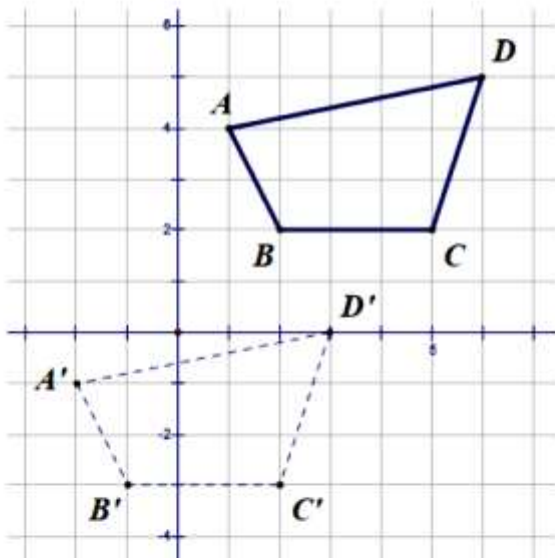
1. The diagram below represents what type of transformation?



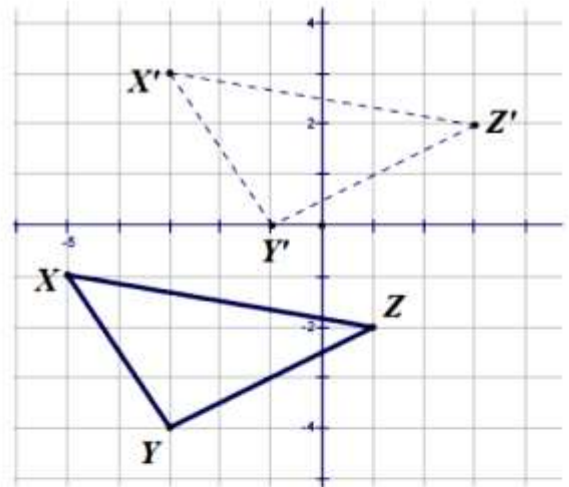
2. The diagram below represents what type of transformation?



3. The diagram below represents what type of transformation?



4. Write a rule for the translation pictured below.



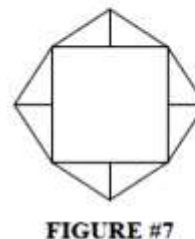
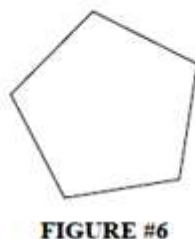
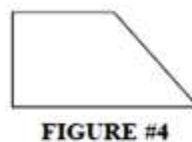
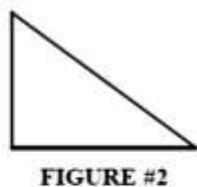
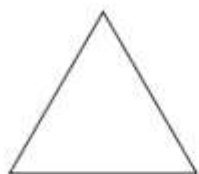
5. Points $E(3, 1)$, $F(-2, 0)$, and $G(1, -3)$ are the vertices of $\triangle EFG$. Draw the image and list coordinates of $\triangle E'F'G'$ after the translation $(x, y) \rightarrow (x+5, y-7)$.
6. Given the translation: $(x, y) \rightarrow (x+4, y-6)$
 If point Q has the coordinates $(-4, 0)$, find the coordinates of point Q' .
7. Given the translation: $(x, y) \rightarrow (x+4, y-6)$
 If point R' has the coordinates $(1, -2)$, find the coordinates of point R .

8. Points $J(-2, -2)$, $K(-1, -5)$, $L(3, -4)$, and $M(4, -1)$ are the vertices of quadrilateral $JKLM$. Draw the image and list the coordinates of quadrilateral $J'K'L'M'$ after the figure is reflected about the x -axis.
9. Points $P(1, 1)$, $Q(3, -3)$, and $R(2, -5)$ are the vertices of $\triangle PQR$. Draw the image and list the coordinates of $\triangle P'Q'R'$ after the figure is reflected about the y -axis.

Use the following information to answer questions #10 – #14.

Imagine a clock face. The x -axis passes through the numbers 3 and 9. The y -axis passes through the numbers 12 and 6.

10. When it is 5:00 PM, the hour hand points at the number 5. If the hour hand is reflected about the x -axis, what number will it point at?
11. When it is 5:00 PM, the hour hand points at the number 5. If the hour hand is reflected about the y -axis, what number will it point at?
12. When it is 5:00 PM, the hour hand points at the number 5. If the hour hand is rotated 180° , what number will it point at?
13. When it is 5:00 PM, the hour hand points at the number 5. If the hour hand is rotated 90° clockwise, what number will it point at?
14. When it is 5:00 PM, the hour hand points at the number 5. If the hour hand is rotated 90° counterclockwise, what number will it point at?
15. Points $X(1, 1)$, $Y(3, 2)$, and $Z(2, 5)$ are the vertices of $\triangle XYZ$. Draw the image and list the coordinates of $\triangle X'Y'Z'$ after the figure is rotated 180° around the origin.
16. Points $M(3, 1)$, $N(4, 5)$, and $O(1, 4)$ are the vertices of $\triangle MNO$. Draw the image and list the coordinates of $\triangle M'N'O'$ after the figure is rotated 90° clockwise around the origin.
17. Draw an equilateral triangle. How many lines of symmetry does it have?
18. Which figures below have rotational symmetry?



19. Complete #36 – 40 on page 683 of your textbook.