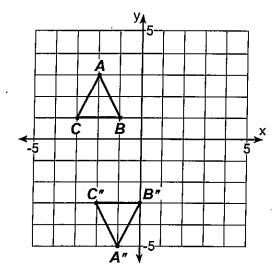
Transformations Quiz Review

- 1) What is the image of (-3,6) when reflected in the x-axis?
 - A) (-3,6)
- C) (3,-6)
- B) (-3,-6)
- D) (3,6)
- 2) Refer to the diagram below.



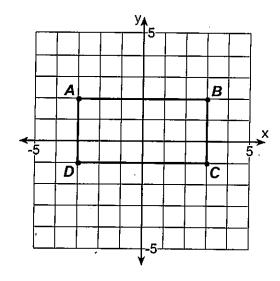
What two transformations took triangle ABC to triangle A''B''C''?

- A) a reflection over the x-axis followed by a translation of (1,-2)
- B) a translation of (1,-2) followed by a reflection over the x-axis
- C) a rotation of 180° about the origin followed by a translation of (-2,-3)
- D) a translation of (1,-3) followed by a rotation of 180° about point A
- 3) If the point (2,-5) is reflected in the line y = x, then the image is
 - A) (-2,5)
- C) (5,-2)

B) (-5,2)

D) (-5,-2)

4) Rotate rectangle *ABCD* 90° clockwise about the origin.



What are the coordinates of point B'?

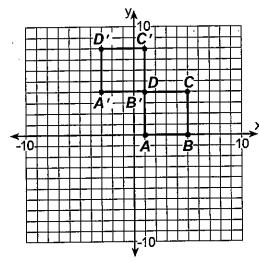
- A) (-1,-3)
- C) (2,-3)
- B) (-3,-1)
- D) (-3,2)
- 5) What is the image of A(3,4) under R_{90} ?
 - A) (-3,-4)
- C) (-4,3)
- B) (-4,-3)
- D) (3,-4)
- 6) If the letter **P** is rotated 180 degrees, which of the following is the resulting figure?
 - A) 😈

C) h

B) 🕰

D) **d**

7) What translation has taken square ABCD to square A'B'C'D'?



A) $T_{(4,-4)}$

C) $T_{(4,4)}$

B) $T_{(-4,4)}$

- D) T_(-4,-4)
- 8) Which of the following is the best description of a dilation of a figure?
 - A) an enlargement or a reduction of the figure
 - B) a turning of the figure about some fixed point
 - C) a mirror image of the figure
 - D) a slide of the figure
- 9) What is the proper notation for a translation that moves an object 4 units right and 5 units down?
 - A) $T_{(5,-4)}$

C) $T_{(4,-5)}$

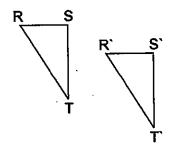
- B) $T_{(-4,-5)}$
- D) T_(-5,-4)
- 10) If translation T maps point A(-3,1) onto point A'(5,5), what is the translation T?
 - A) $T_{2,4}$

C) $T_{8,6}$

B) $T_{2.6}$

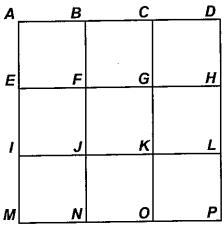
D) $T_{8,4}$

- 11) A translation moves A(2,3) onto A' (4,8). What are the coordinates of B', the image of B(4,6) under the same translation?
 - A) (8,12)
- C) (6,8)
- B) (12,18)
- D) (6,11)
- 12) In the accompanying diagram, $\Delta R'S'T'$ is the image of ΔRST .



Which type of transformation is shown in this diagram?

- A) rotation
- C) translation
- B) reflection
- D) dilation
- 13) A certain translation has taken point A to point G. Where would this same translation take point J?



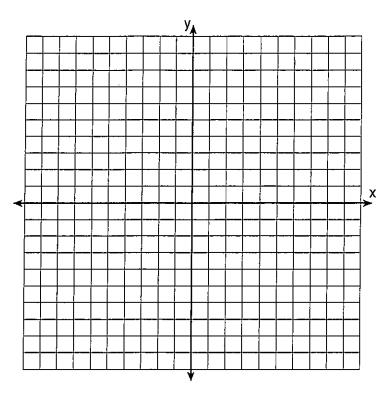
A) N

C) L

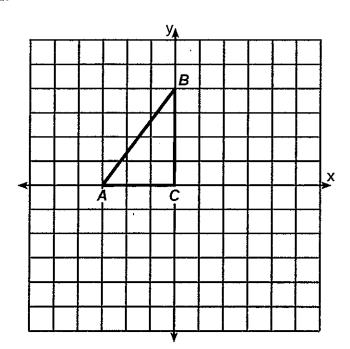
B) *P*

D) *O*

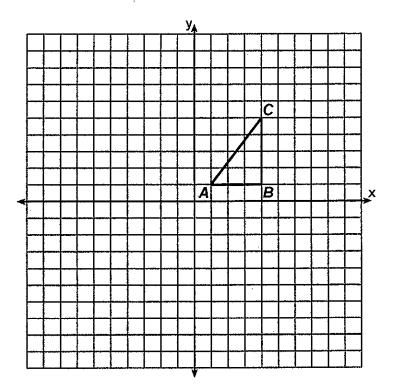
14) Given triangle ABC with coordinates A(-1,-2), B(0,-4), and C(3,-1). Graph and label $\triangle A'B'C'$, the image of $\triangle ABC$ after translation $T_{4,-3}$.



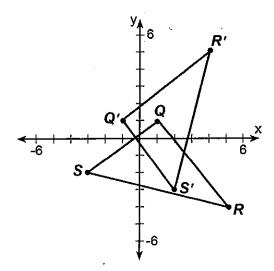
15) Triangle ABC is graphed on the set of axes below. Graph and label $\triangle A'B'C'$, the image of $\triangle ABC$ after a reflection over the line x=1.



In the diagram below, $\triangle ABC$ has coordinates A(1,1), B(4,1), and C(4,5). Graph and label $\triangle A''B''C''$, the image of $\triangle ABC$ after the translation five units to the right and two units up followed by the reflection over the line y=0.

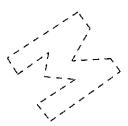


17) In the accompanying diagram, what rotation of $\triangle QRS$ is illustrated?

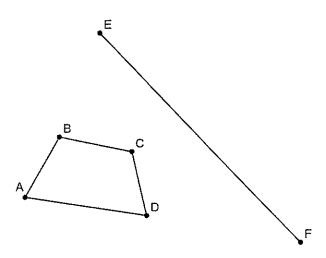


18) Construct the line of reflection across which the each image below was reflected.

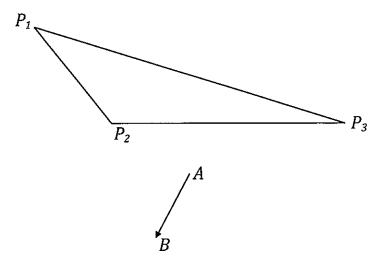




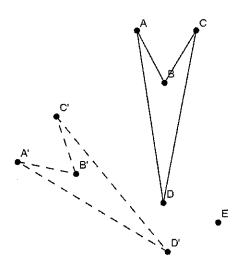
19) Reflect the quadrilateral over the line segment EF.



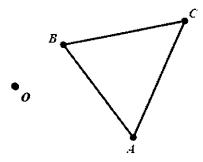
20) Use your compass and straightedge to apply $T_{\overline{AB}}$ to Δ $P_1P_2P_3$.



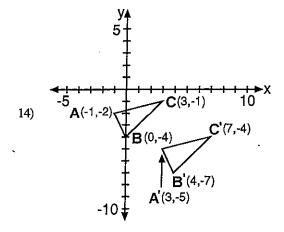
21) Label angle $\, heta\,$ and state the direction of the rotation below



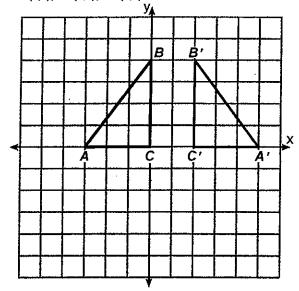
22) Use a compass and straight edge to construct $R_{O,180}$ ($\Delta\!ABC$)

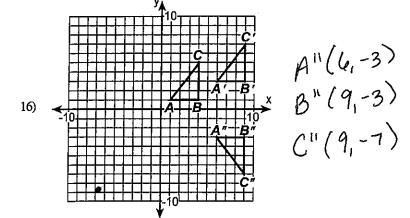


- 1) B 2) A 3) B 4) C 5) C
- 6) D 7) B 8) A 9) C 10) D
- 11) D 12) C 13) B



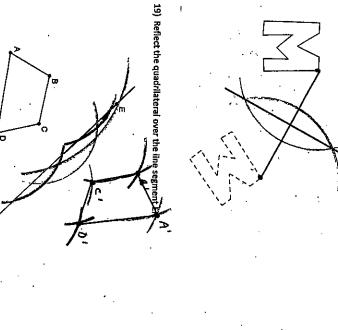
15) A'(5,0), B'(2,4), C'(2,0)



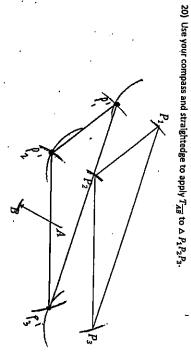


17) 90° ccw about the origin

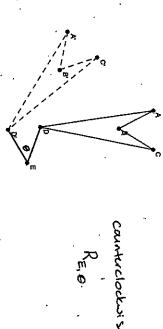
18) Construct the line of reflection across which the each image below was reflected.



20) He was compare and the letter to the letter to the



21) Label angle heta and state the direction of the rotation below



22) Use a compass and straight edge to construct $R_{o,
m 180}$ (ΔABC)

