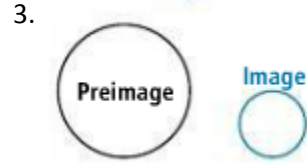
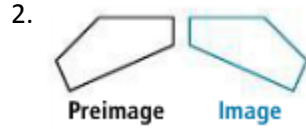
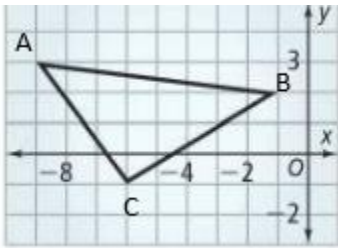


Does the transformation appear to be a rigid motion?

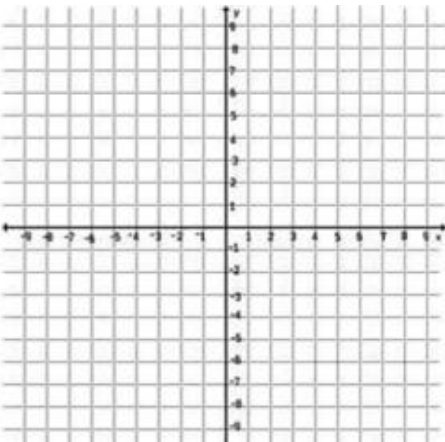


Graph the image of each figure under the given translation.

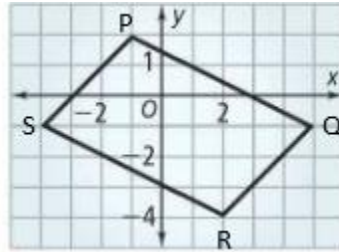
4. $T_{\langle 3,2 \rangle}(\triangle ABC)$



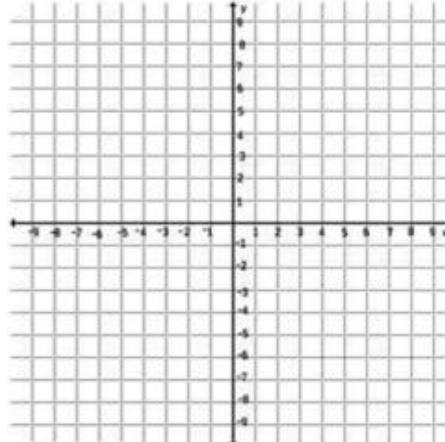
A' _____ B' _____ C' _____



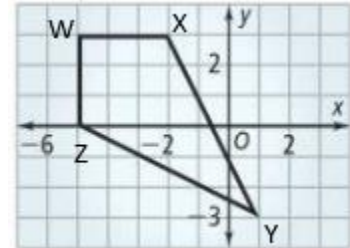
5. $T_{\langle 5,-1 \rangle}(PQRS)$



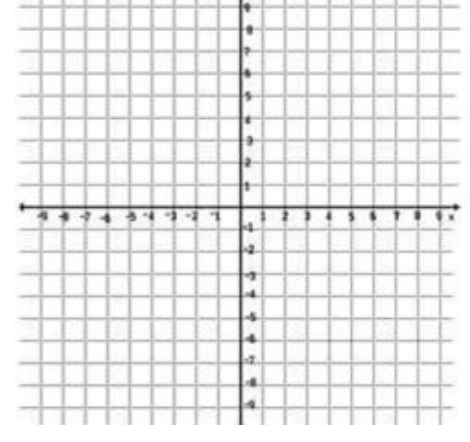
P' _____ Q' _____ R' _____ S' _____



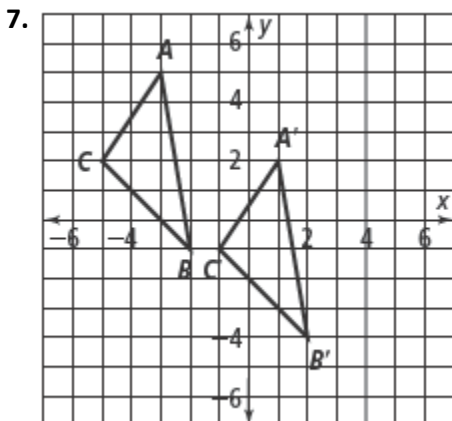
6. $T_{\langle -2,5 \rangle}(WXYZ)$



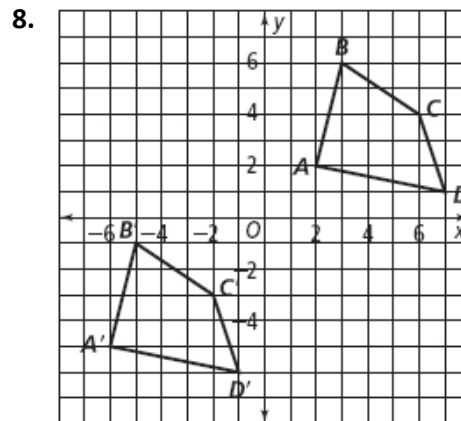
W' _____ X' _____ Y' _____ Z' _____



Write the rule for the transformation shown.



Rule _____



Rule _____

9. $\triangle MUG$ has coordinates $M(2, -4)$, $U(6, 6)$ and $G(7, 2)$. The translation $T_{\langle -5, 2 \rangle}(\triangle MUG = \triangle M'U'G')$. What are the coordinates of M' , U' , and G' ?
10. $\triangle XYZ$ has coordinates $X(2, 3)$, $Y(1, 4)$, and $Z(8, 9)$. A translation maps X to $X'(4, 7)$. What are the coordinates for Y' and Z' for this translation?

Standardized Test Prep:

11. $\triangle ABC$ has vertices $A(-5, 2)$, $B(0, -4)$, and $C(3, 3)$. What are the vertices of the image of $\triangle ABC$ after the translation $T_{\langle 7, -5 \rangle}(\triangle ABC)$?
- A $A'(2, -3)$, $B'(7, -9)$, $C'(10, -2)$ C $A'(-12, 7)$, $B'(-7, 1)$, $C'(-4, 8)$
- B $A'(-12, -3)$, $B'(-7, -9)$, $C'(-4, -2)$ D $A'(2, -3)$, $B'(10, -2)$, $C'(7, -9)$