

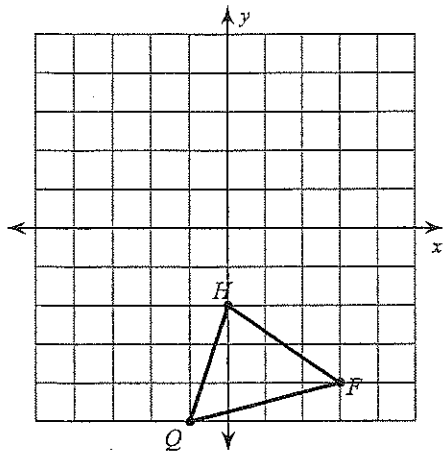
## Kaleidoscopes: Translations (slide)

Period \_\_\_\_\_

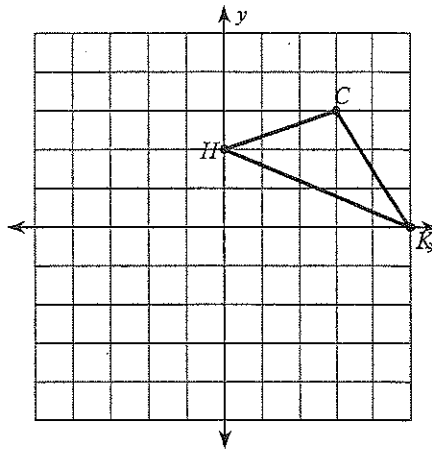
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Graph the image of the figure using the transformation given.

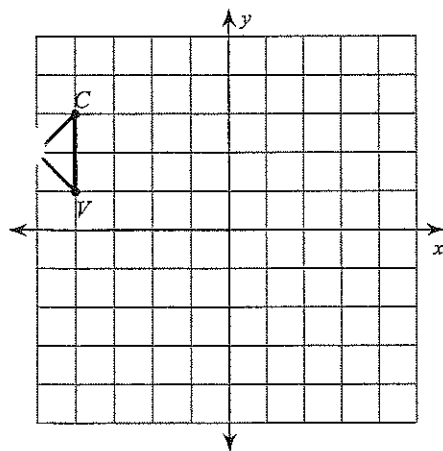
1) translation:  $(x, y) \rightarrow (x + 2, y + 4)$



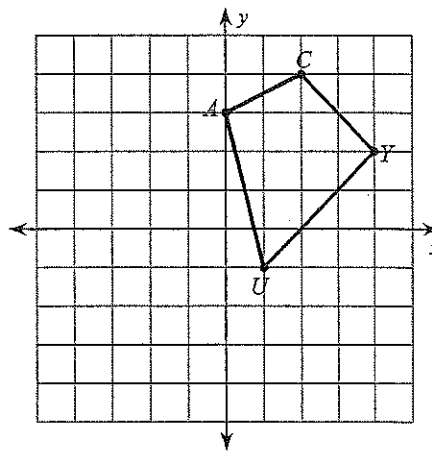
2) translation:  $(x, y) \rightarrow (x - 2, y - 1)$



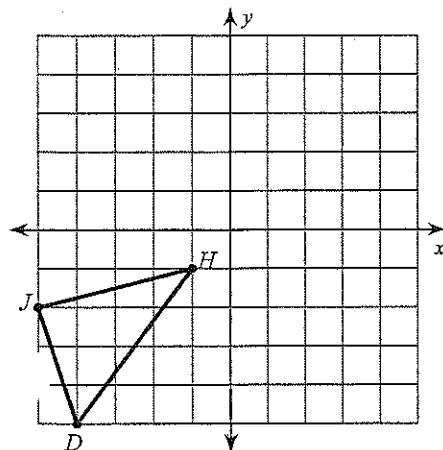
3) translation:  $(x, y) \rightarrow (x + 2, y - 6)$



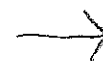
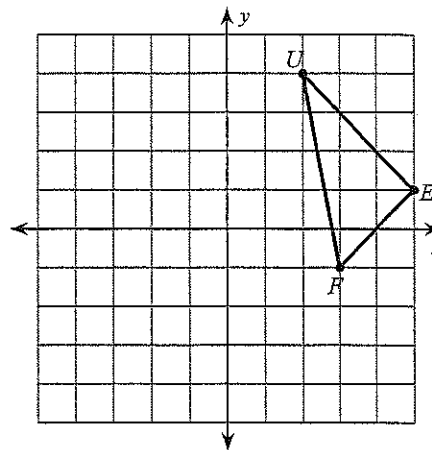
4) translation:  $(x, y) \rightarrow (x - 4, y - 1)$



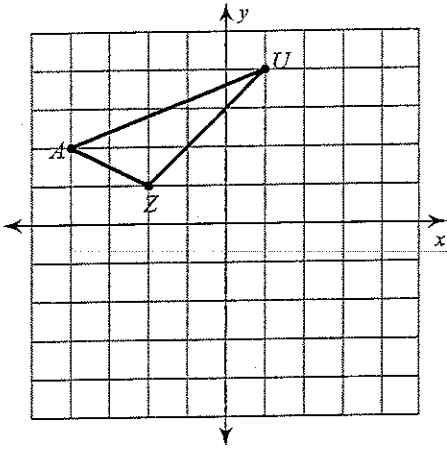
5) translation:  $(x, y) \rightarrow (x + 5, y + 1)$



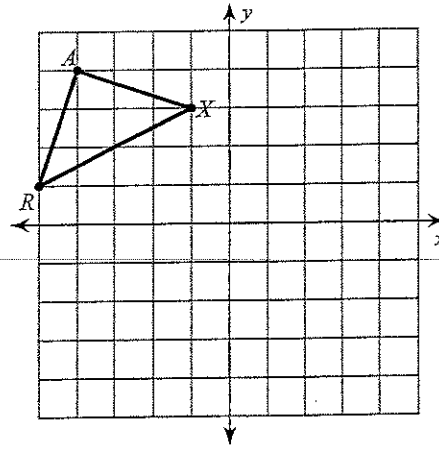
6) translation:  $(x, y) \rightarrow (x - 5, y - 2)$



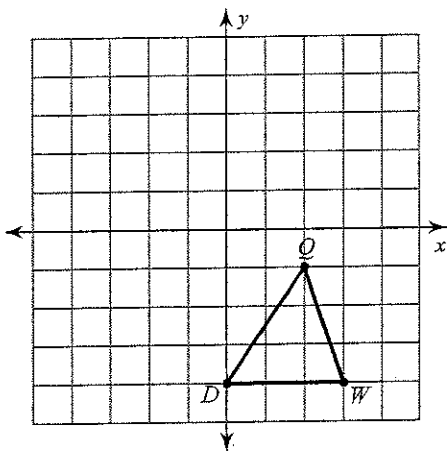
7) translation:  $(x, y) \rightarrow (x + 2, y - 3)$



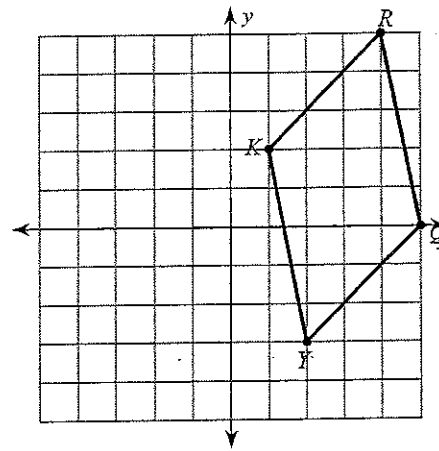
8) translation:  $(x, y) \rightarrow (x + 3, y - 1)$



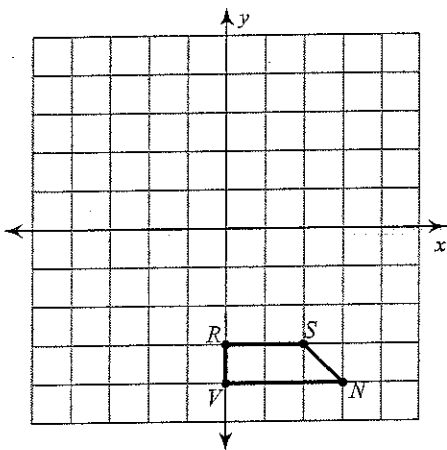
9) translation:  $(x, y) \rightarrow (x + 2, y + 1)$



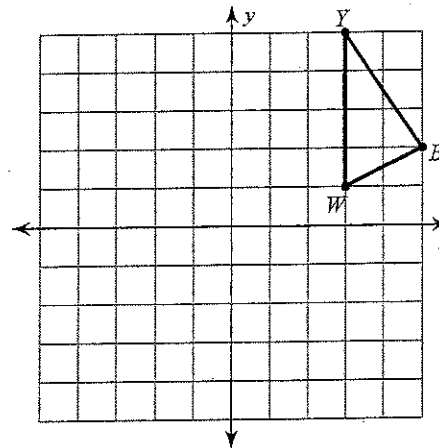
10) translation:  $(x, y) \rightarrow (x - 4, y - 2)$



11) translation:  $(x, y) \rightarrow (x - 2, y + 6)$

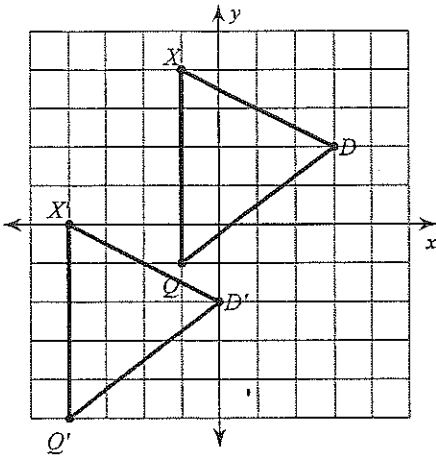


12) translation:  $(x, y) \rightarrow (x - 2, y - 2)$

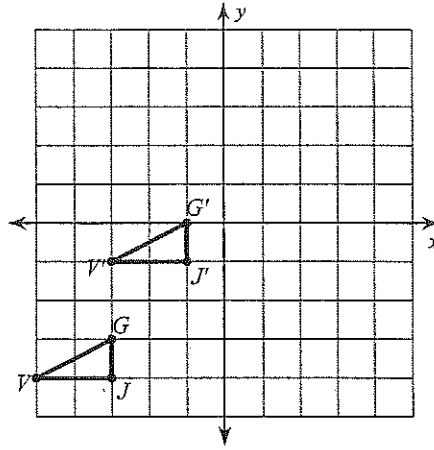


Write a rule to describe each transformation.

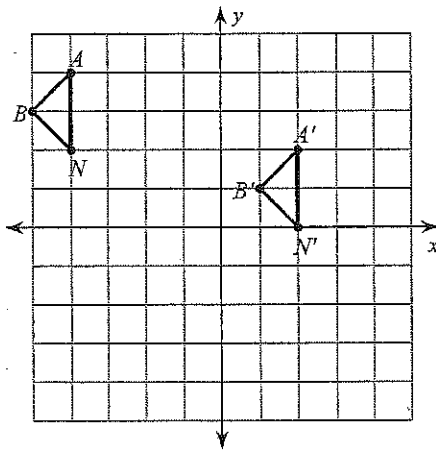
13)



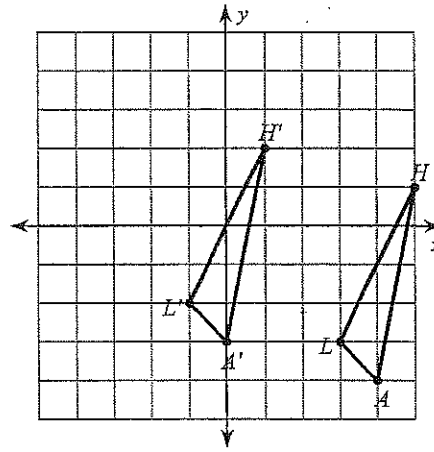
14)



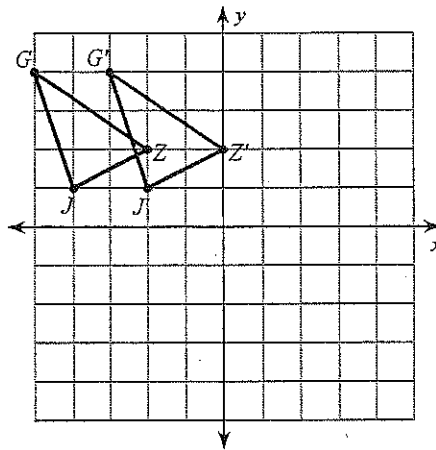
15)



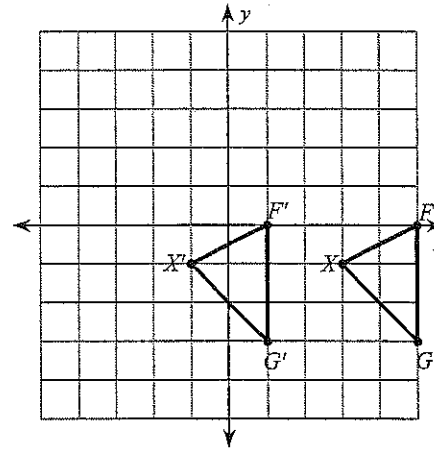
16)



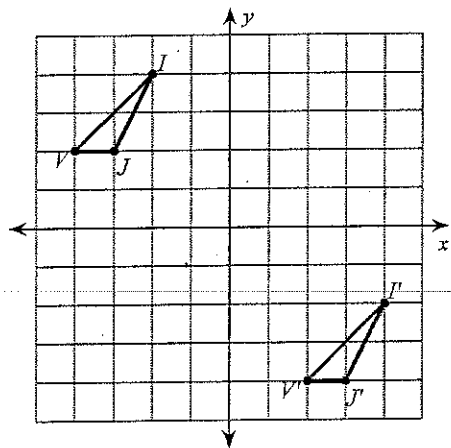
17)



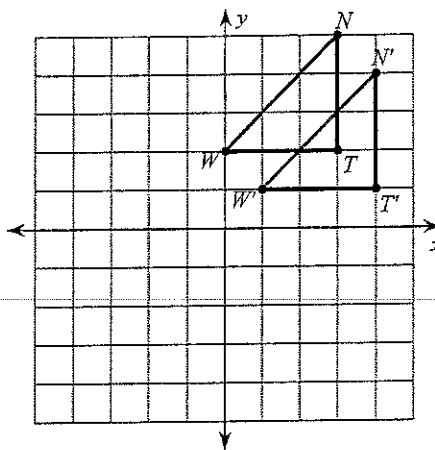
18)



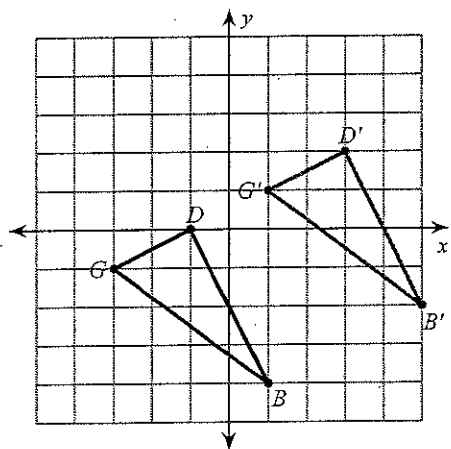
19)



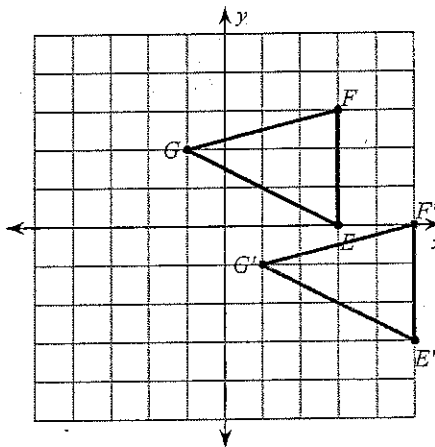
20)



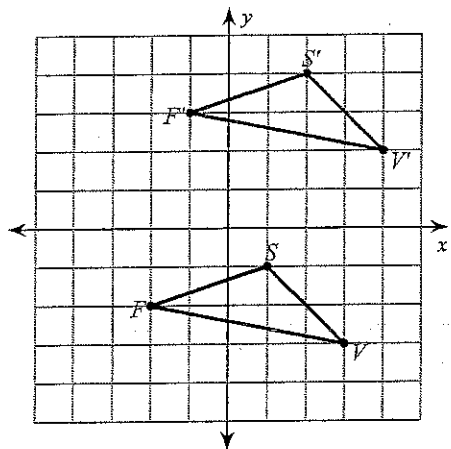
21)



22)



23)



END