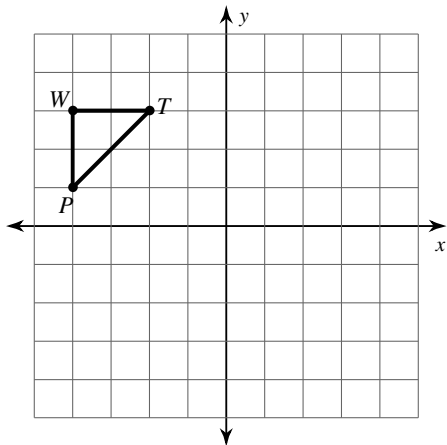


# Assignment

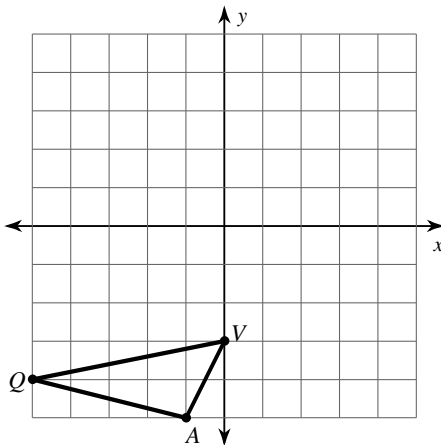
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**Graph the image of the figure using the transformation given.**

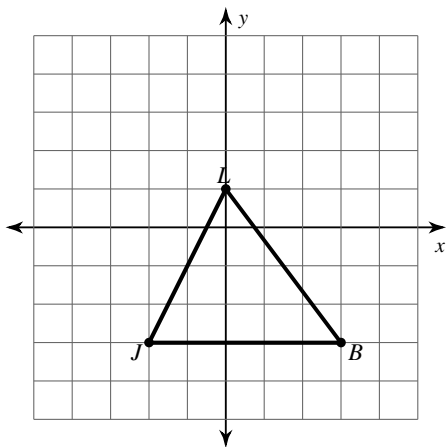
1) translation:  $(x, y) \rightarrow (x + 7, y - 3)$



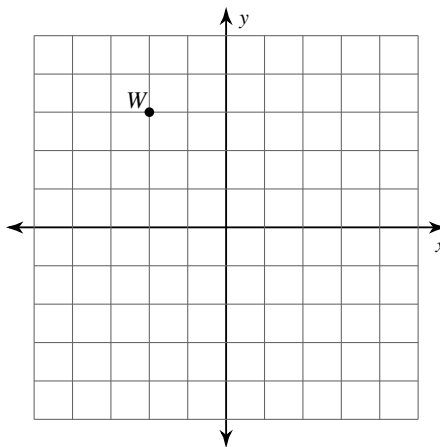
2) translation:  $(x, y) \rightarrow (x + 2, y + 1)$



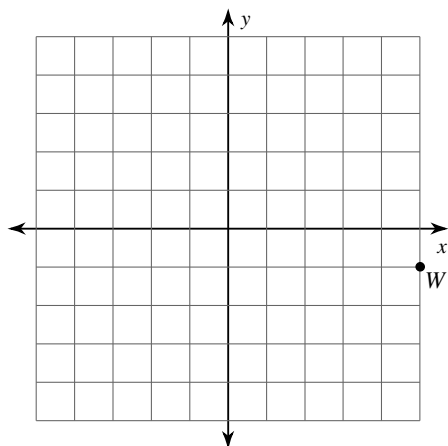
3) reflection across the y-axis



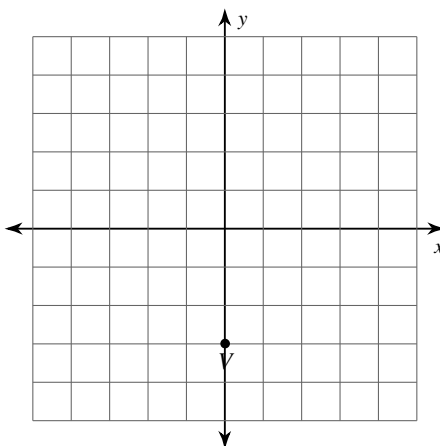
4) reflection across the x-axis



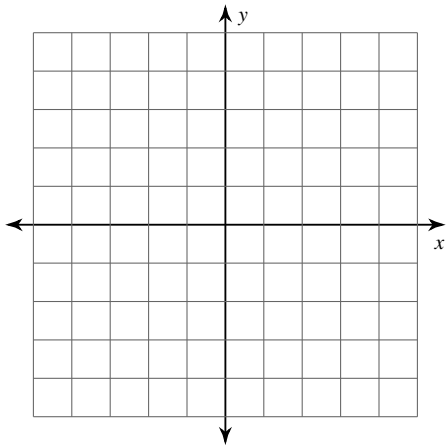
5) reflection across the y-axis



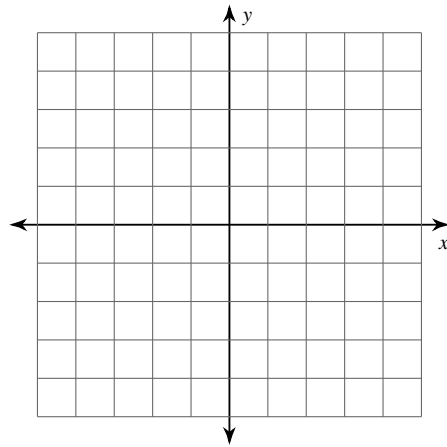
6) reflection across the y-axis



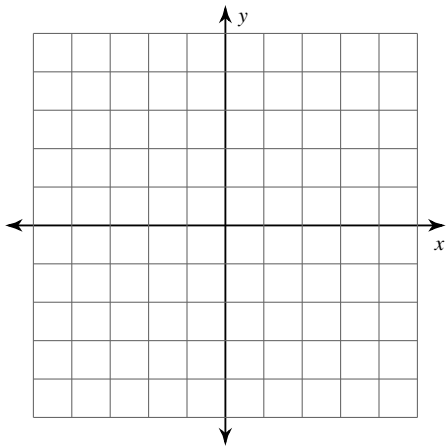
- 7) reflection across the x-axis  
 $A(-1, -3), N(0, 2), S(3, 1)$



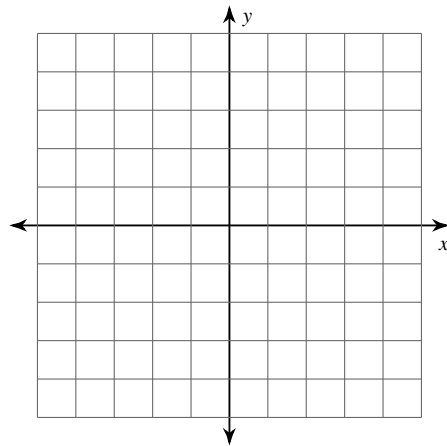
- 8) reflection across the x-axis  
 $E(5, 2)$



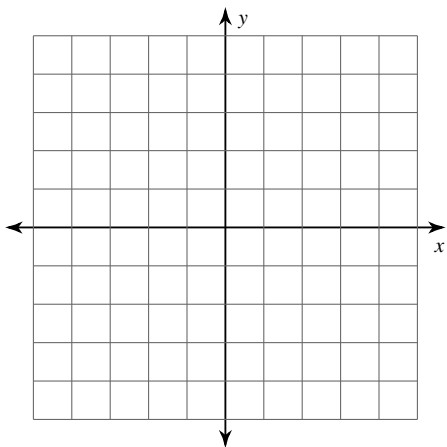
- 9) rotation  $90^\circ$  clockwise about the origin  
 $F(2, -3), A(1, 0), T(3, -1)$



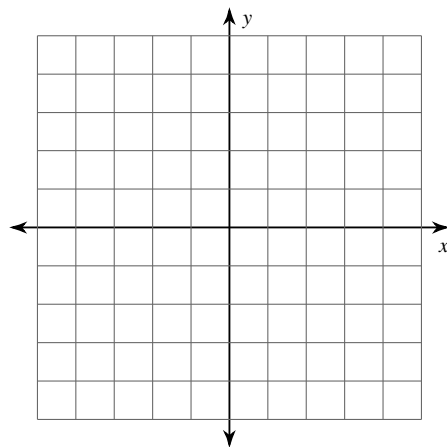
- 10) rotation  $180^\circ$  about the origin  
 $Z(-2, 1)$



- 11) rotation  $90^\circ$  clockwise about the origin  
 $I(-1, 1), H(3, 4), G(4, 1)$

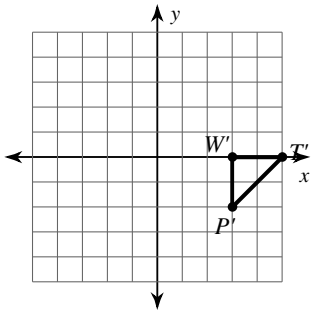


- 12) rotation  $180^\circ$  about the origin  
 $F(-5, 1), R(-1, 2), V(-3, -3)$

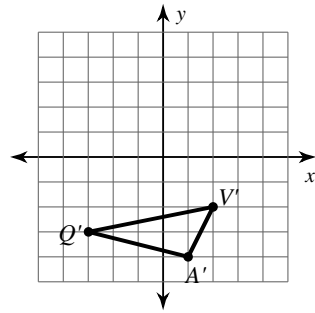


# Answers to Assignment (ID: 1)

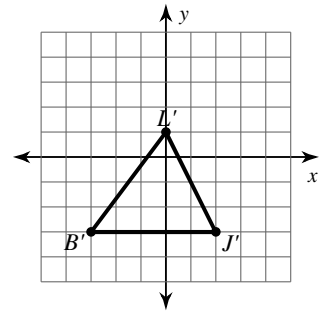
1)



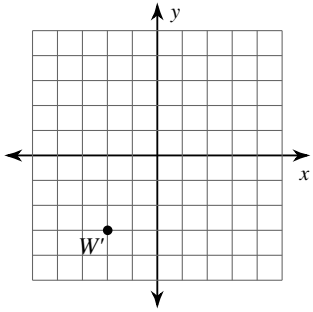
2)



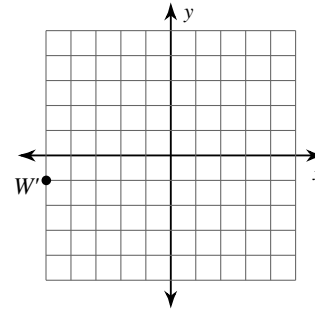
3)



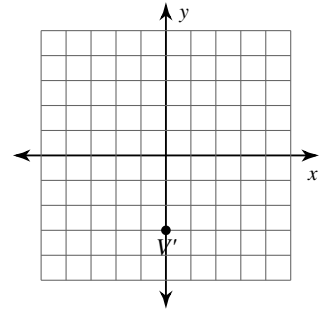
4)



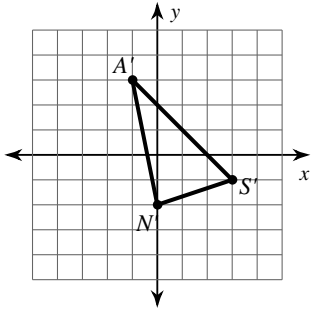
5)



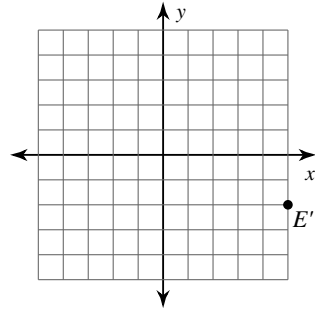
6)



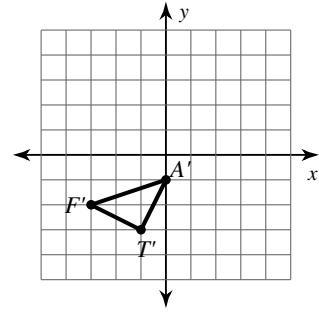
7)



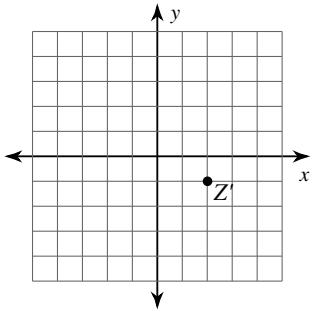
8)



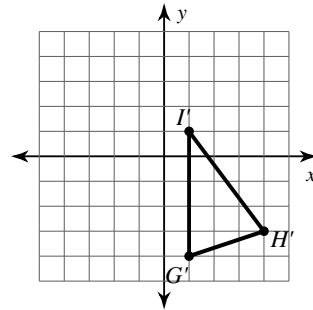
9)



10)



11)



12)

