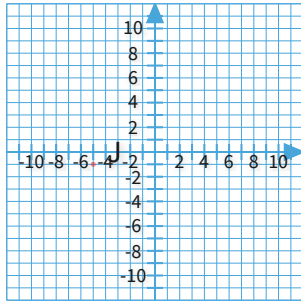


#1

Graph the image of  $J(-5, -1)$  after a rotation of  $180^\circ$  clockwise around the origin. What are the coordinates of the resulting point,  $J'$ ?

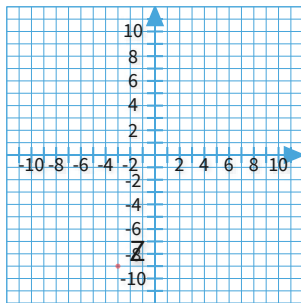


- $J'(5, 1)$     
   $J'(-5, -1)$     
   $J'(-1, 5)$

Show your work

#2

Graph the image of  $Z(-3, -9)$  after a rotation of  $180^\circ$  clockwise around the origin. What are the coordinates of the resulting point,  $Z'$ ?

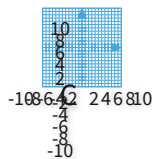


- $Z'(-9, 3)$     
   $Z'(-3, -9)$     
   $Z'(3, 9)$

Show your work

#3

Graph the image of  $C(-6, -2)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $C'$ ?

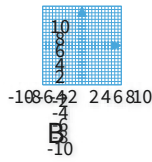


$$C' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

#4

Graph the image of  $B(-8, -9)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $B'$ ?

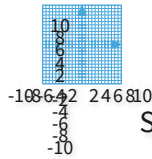


$$B' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

#5

Graph the image of  $S(7, -7)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $S'$ ?

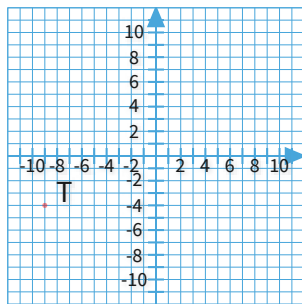


$$S' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

#6

Graph the image of  $T(-9, -4)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $T'$ ?

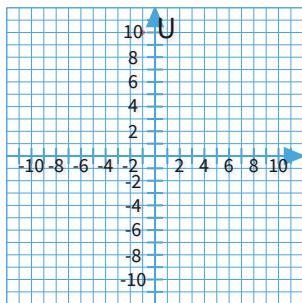


- $T'(-4, 9)$      
   $T'(9, 4)$      
   $T'(-9, -4)$

Show your work

#7

Graph the image of  $U(-1, 10)$  after a rotation of  $180^\circ$  clockwise around the origin. What are the coordinates of the resulting point,  $U'$ ?

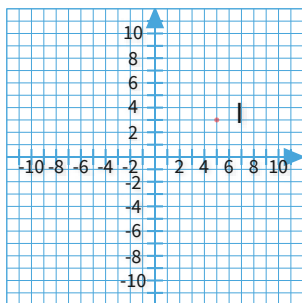


- $U'(1, -10)$     
   $U'(-1, 10)$     
   $U'(10, 1)$

Show your work

#8

Graph the image of  $I(5, 3)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $I'$ ?

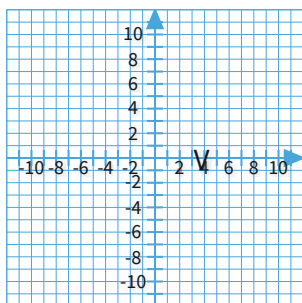


- $I'(-5, -3)$     
   $I'(5, 3)$     
   $I'(3, -5)$

Show your work

#9

Graph the image of  $V(2, -1)$  after a rotation of  $180^\circ$  clockwise around the origin. What are the coordinates of the resulting point,  $V'$ ?

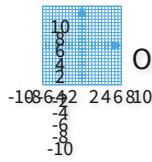


- $V'(-2, 1)$     
   $V'(2, -1)$     
   $V'(-1, -2)$

Show your work

#10

Graph the image of  $O(6,4)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $O'$ ?

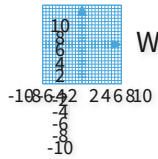


$$O' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

#11

Graph the image of  $W(7,7)$  after a rotation of  $180^\circ$  clockwise around the origin. What are the coordinates of the resulting point,  $W'$ ?

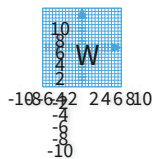


$$W' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

#12

Graph the image of  $W(-3,5)$  after a rotation of  $180^\circ$  counterclockwise around the origin. What are the coordinates of the resulting point,  $W'$ ?



$$W' = (\boxed{\phantom{00}}, \boxed{\phantom{00}})$$

Show your work

Question	Answer
#1	choice 1
#2	choice 3
#3	6, 2
#4	8, 9
#5	-7, 7
#6	choice 2
#7	choice 1
#8	choice 1
#9	choice 1
#10	-6, -4
#11	-7, -7
#12	3, -5