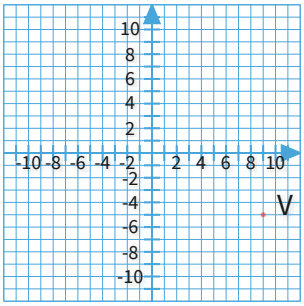
Rotations Find the Coordinates

Name:

#1

Graph the image of V(9,−5) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, V′?

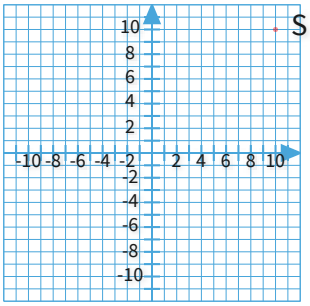


○ $V'(9, -5)$ ○ $V'(-9, 5)$ ○ $V'(-5, -9)$

Show your work

#2

Graph the image of S(10,10) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, S′?

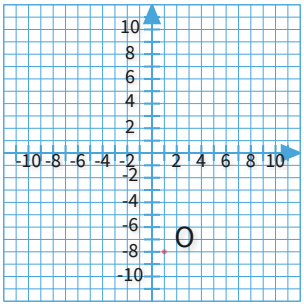


○ $S'(-10, -10)$ ○ $S'(10, 10)$ ○ $S'(10, -10)$

Show your work

#3

Graph the image of O(1,−8) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, O′?

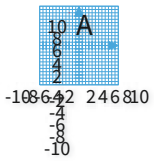


○ $O'(-8, -1)$ ○ $O'(-1, 8)$ ○ $O'(1, -8)$

Show your work

#4

Graph the image of A(−3,10) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, A′?

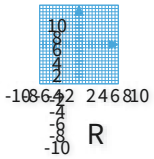


$A' = (\square, \square)$

Show your work

#5

Graph the image of R(−1,−9) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, R′?

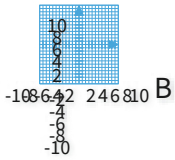


$R' = (\square, \square)$

Show your work

#6

Graph the image of B(10,−1) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, B′?

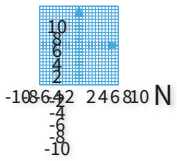


$B' = (\square, \square)$

Show your work

#7

Graph the image of N(10,−2) after a rotation of 180° counterclockwise around the origin. What are the coordinates of the resulting point, N′?

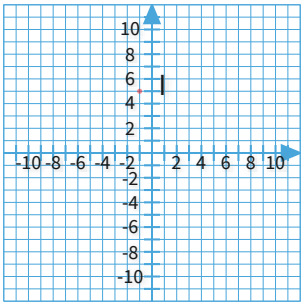


$N' = (\square, \square)$

Show your work

#8

Graph the image of I(−1,5) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, I′?

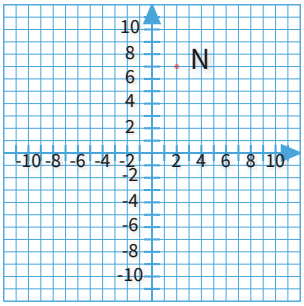


○ I′(1, −5) ○ I′(−1, 5) ○ I′(5, 1)

Show your work

#9

Graph the image of N(2,7) after a rotation of 180° counterclockwise around the origin. What are the coordinates of the resulting point, N′?

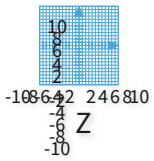


○ N′(7, −2) ○ N′(2, 7) ○ N′(−2, −7)

Show your work

#10

Graph the image of Z(−3,−7) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, Z′?

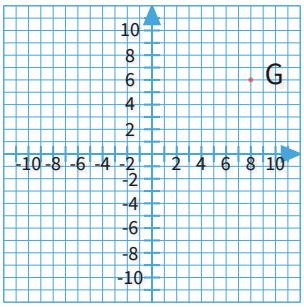


$Z' = (\square, \square)$

Show your work

#11

Graph the image of G(8,6) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, G′?

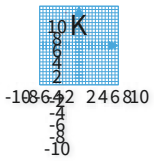


○ G′(−8, −6) ○ G′(8, 6) ○ G′(6, −8)

Show your work

#12

Graph the image of K(−4,10) after a rotation of 180° clockwise around the origin. What are the coordinates of the resulting point, K′?



$K' = (\square, \square)$

Show your work

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