

G.CO.A.5: Rotations 1b

- 1 What are the coordinates of A' , the image of $A(-3,4)$, after a rotation of 180° about the origin?
- 2 If point $(5,2)$ is rotated counterclockwise 90° about the origin, its image will be point
- 3 What are the coordinates of M' , the image of $M(2,4)$, after a counterclockwise rotation of 90° about the origin?
- 4 What is the image of point $(8,-4)$ under the rotation R_{90° about the origin?
- 5 The transformation R_{90° maps point $(5,3)$ onto the point whose coordinates are
- 6 What is the image of $A(5,2)$ under R_{90° ?
- 7 The coordinates of point P are $(7,1)$. What are the coordinates of the image of P after R_{90° about the origin?
- 8 What are the coordinates of the image of $P(-2,5)$ after a clockwise rotation of 90° about the origin?
- 9 What are the coordinates of the image of $(2,-5)$ after a counterclockwise rotation of 90° about the origin?
- 10 What is the image of the point $(-3,-6)$ on rotation of 90° about the origin?
- 11 What is the image of the point $(2,-3)$ under a clockwise rotation of 90° (R_{-90°) about the origin?
- 12 The point $(-2,1)$ is rotated 180° about the origin in a clockwise direction. What are the coordinates of its image?
- 13 What is the image of $R_{90^\circ}(1,2)$?
- 14 Write the coordinates of P' , the image of $P(5,-1)$ after a clockwise rotation of 180° about the origin.
- 15 What is the image of $(5,1)$ under a counterclockwise rotation of 90° ?
- 16 The point $(-3,4)$ is rotated 180° about the origin in a counterclockwise direction. What are the coordinates of its image?
- 17 What is the image of $(6,5)$ under a counterclockwise rotation of 180° ?
- 18 Point A is rotated 180° in a counterclockwise direction about the origin. If the coordinates of A are $(-1,3)$, what are the coordinates of A' , its image?
- 19 If point $P(3,-2)$ is rotated 90° about the origin, what is the image of P ?
- 20 The coordinates of the endpoints of \overline{BC} are $B(5,1)$ and $C(-3,-2)$. Under the transformation R_{90° , the image of \overline{BC} is $\overline{B'C'}$. State the coordinates of points B' and C' .

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Answer Section

1 ANS:
(3,-4)
 $(x,y) \rightarrow (-x,-y)$

REF: 061304ge

2 ANS:
(-2,5)

REF: 060809b

3 ANS:
(-4,2)

REF: 088534siii

4 ANS:
(4,8)

REF: 010435siii

5 ANS:
(-3,5)

REF: 089421siii

6 ANS:
(-2,5)

REF: 019727siii

7 ANS:
(-1,7)

REF: 011421ge

8 ANS:
(5,2)

REF: 019934siii

9 ANS:
(5,2)

REF: 080328siii

10 ANS:
(6,-3)

REF: 068016siii

11 ANS:
(-3,-2)

REF: 068109siii

12 ANS:
(2,-1)

REF: 068703siii

13 ANS:
(-2,1)

REF: 089308siii

14 ANS:
(-5,1)

REF: 018905siii

15 ANS:
(-1,5)

REF: 068910siii

16 ANS:
(3,-4)

REF: 069605siii

17 ANS:
(-6,-5)

REF: 089812siii

18 ANS:
(1,-3)

REF: 089908siii

19 ANS:
(2,3)

REF: 080109siii

20 ANS:
 $(x,y) \rightarrow (-y,x)$
 $B(5,1) \rightarrow B'(-1,5)$
 $C(-3,-2) \rightarrow C'(2,-3)$

REF: 061429ge