Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (0,2)
   B. (-10,1)
   C. (-9,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (1,3)
   B. (8,0)
   C. (9,8)
   D. (2,7)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (-4,0)
   B. (-7,-2)
   C. (-9,-9)
   Rotate the shape 180° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-3,5)
   B. (-7,2)
   C. (-8,8)
   D. (-4,10)
   Rotate the shape 90° clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (0,2)
   B. (-10,1)
   C. (-9,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (1,3)
   B. (8,0)
   C. (9,8)
   D. (2,7)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (-4,0)
   B. (-7,-2)
   C. (-9,-9)
   Rotate the shape 180° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-3,5)
   B. (-7,2)
   C. (-8,8)
   D. (-4,10)
   Rotate the shape 90° clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (0,-2)
   B. (7,0)
   C. (8,-6)
   Rotate the shape 180° clockwise.

2) The shape above has the following coordinates:
   A. (0,-5)
   B. (9,0)
   C. (6,-9)
   D. (2,-6)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (2,2)
   B. (6,1)
   C. (10,9)
   Rotate the shape 270° counter-clockwise.

4) The shape above has the following coordinates:
   A. (0,-3)
   B. (-6,0)
   C. (-7,-10)
   D. (-3,-9)
   Rotate the shape 270° clockwise.
1) The shape above has the following coordinates:
   A. (0,-2)
   B. (7,0)
   C. (8,-6)
   Rotate the shape 180° clockwise.

2) The shape above has the following coordinates:
   A. (0,-5)
   B. (9,0)
   C. (6,-9)
   D. (2,-6)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (2,2)
   B. (6,1)
   C. (10,9)
   Rotate the shape 270° counter-clockwise.

4) The shape above has the following coordinates:
   A. (0,-3)
   B. (-6,0)
   C. (-7,-10)
   D. (-3,-9)
   Rotate the shape 270° clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-2,0)
   B. (-7,3)
   C. (-9,7)
   Rotate the shape 270° counter-clockwise.

2) The shape above has the following coordinates:
   A. (4,0)
   B. (10,-1)
   C. (8,-6)
   D. (3,-9)
   Rotate the shape 270° counter-clockwise.

3) The shape above has the following coordinates:
   A. (0,-1)
   B. (-8,-4)
   C. (-10,-10)
   Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
   A. (0,0)
   B. (-9,-3)
   C. (-8,-10)
   D. (-2,-6)
   Rotate the shape 90° clockwise.

Answers

1a. 
1b. 
1c. 
1d. 
2a. 
2b. 
2c. 
2d. 
3a. 
3b. 
3c. 
3d. 
4a. 
4b. 
4c. 
4d. 

Graph
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. \((-2,0)\)
   B. \((-7,3)\)
   C. \((-9,7)\)
   Rotate the shape 270° counter-clockwise.

2) The shape above has the following coordinates:
   A. \((4,0)\)
   B. \((10,-1)\)
   C. \((8,-6)\)
   D. \((3,-9)\)
   Rotate the shape 270° counter-clockwise.

3) The shape above has the following coordinates:
   A. \((0,-1)\)
   B. \((-8,-4)\)
   C. \((-10,-10)\)
   Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
   A. \((0,0)\)
   B. \((-9,-3)\)
   C. \((-8,-10)\)
   D. \((-2,-6)\)
   Rotate the shape 90° clockwise.

4a. \((0,0)\)
4b. \((-3,9)\)
4c. \((-10,-8)\)
4d. \((-6,2)\)

3a. \((1,-0)\)
3b. \((4,-8)\)
3c. \((10,-10)\)

2a. \((-0,-4)\)
2b. \((-1,-10)\)
2c. \((-6,-8)\)
2d. \((-9,-3)\)

1. Graph
3. Graph
4. Graph
1) The shape above has the following coordinates:
   A. (-3,3)
   B. (-7,2)
   C. (-8,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (-4,-2)
   B. (-9,0)
   C. (-6,-7)
   D. (-5,-8)
   Rotate the shape 90° counter-clockwise.

3) The shape above has the following coordinates:
   A. (-5,3)
   B. (-6,1)
   C. (-9,9)
   Rotate the shape 270° clockwise.

4) The shape above has the following coordinates:
   A. (-2,-1)
   B. (-6,-3)
   C. (-7,-6)
   D. (-1,-9)
   Rotate the shape 270° clockwise.

Rotate each shape as described.

Answers

1.
1a. 
1b. 
1c. 
1d. 

2. Graph

3.
3a. 
3b. 
3c. 

4. Graph
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-3,3)
   B. (-7,2)
   C. (-8,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (-4,-2)
   B. (-9,0)
   C. (-6,-7)
   D. (-5,-8)
   Rotate the shape 90° counter-clockwise.

3) The shape above has the following coordinates:
   A. (-5,3)
   B. (-6,1)
   C. (-9,9)
   Rotate the shape 270° clockwise.

4) The shape above has the following coordinates:
   A. (-2,-1)
   B. (-6,-3)
   C. (-7,-6)
   D. (-1,-9)
   Rotate the shape 270° clockwise.

Answers

1a. (-3,-3)
1b. (-2,-7)
1c. (-6,-8)
1. Graph

2a. (2,-4)
2b. (-0,-9)
2c. (7,-6)
2d. (8,-5)
2. Graph

3a. (-3,-5)
3b. (-1,-6)
3c. (-9,-9)
3. Graph

4a. (1,-2)
4b. (3,-6)
4c. (6,-7)
4d. (9,-1)
4. Graph
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-3,3)
   B. (-7,5)
   C. (-10,10)
   Rotate the shape 180° clockwise.

2) The shape above has the following coordinates:
   A. (0,5)
   B. (6,3)
   C. (9,8)
   D. (1,10)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (0,-1)
   B. (8,-4)
   C. (6,-9)
   Rotate the shape 180° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-2,4)
   B. (-8,5)
   C. (-10,8)
   D. (-4,7)
   Rotate the shape 90° counter-clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-3,3)
   B. (-7,5)
   C. (-10,10)
   Rotate the shape 180° clockwise.

2) The shape above has the following coordinates:
   A. (0,5)
   B. (6,3)
   C. (9,8)
   D. (1,10)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (0,-1)
   B. (8,-4)
   C. (6,-9)
   Rotate the shape 180° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-2,4)
   B. (-8,5)
   C. (-10,8)
   D. (-4,7)
   Rotate the shape 90° counter-clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-5,2)  
   B. (-6,5)  
   C. (-10,6) 
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (-2,4)  
   B. (-8,3)  
   C. (-10,9) 
   D. (-4,10) 
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (-1,4)  
   B. (-7,5)  
   C. (-10,6) 
   Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-4,-5) 
   B. (-6,-2) 
   C. (-8,-7) 
   D. (-5,-9) 
   Rotate the shape 180° counter-clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
A. (-5,2)
B. (-6,5)
C. (-10,6)
Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
A. (-2,4)
B. (-8,3)
C. (-10,9)
D. (-4,10)
Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
A. (-1,4)
B. (-7,5)
C. (-10,6)
Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
A. (-4,-5)
B. (-6,-2)
C. (-8,-7)
D. (-5,-9)
Rotate the shape 180° counter-clockwise.

Answers
1a. (-2,-5)
1b. (-5,-6)
1c. (-6,-10)
1. Graph
2a. (4,2)
2b. (3,8)
2c. (9,10)
2d. (10,4)
2. Graph
3a. (-4,-1)
3b. (-5,-7)
3c. (-6,-10)
3. Graph
4a. (4,5)
4b. (6,2)
4c. (8,7)
4d. (5,9)
4. Graph
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-4,5)
   B. (-10,3)
   C. (-6,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (4,3)
   B. (7,2)
   C. (9,6)
   D. (2,7)
   Rotate the shape 270° clockwise.

3) The shape above has the following coordinates:
   A. (-5,-3)
   B. (-8,0)
   C. (-6,-8)
   Rotate the shape 270° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-3,0)
   B. (-6,1)
   C. (-9,8)
   D. (-1,6)
   Rotate the shape 90° clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (-4,5)
   B. (-10,3)
   C. (-6,6)
   Rotate the shape 270° clockwise.

2) The shape above has the following coordinates:
   A. (4,3)
   B. (7,2)
   C. (9,6)
   D. (2,7)
   Rotate the shape 270° clockwise.

3) The shape above has the following coordinates:
   A. (-5,-3)
   B. (-8,0)
   C. (-6,-8)
   Rotate the shape 270° counter-clockwise.

4) The shape above has the following coordinates:
   A. (-3,0)
   B. (-6,1)
   C. (-9,8)
   D. (-1,6)
   Rotate the shape 90° clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (1,0)
   B. (8,5)
   C. (7,6)
   Rotate the shape 180° counter-clockwise.

2) The shape above has the following coordinates:
   A. (-5,-1)
   B. (-9,0)
   C. (-6,-6)
   D. (-3,-10)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (-3,-5)
   B. (-10,-3)
   C. (-6,-9)
   Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
   A. (0,-5)
   B. (9,-4)
   C. (8,-7)
   D. (5,-9)
   Rotate the shape 270° clockwise.

Answers:

1a. 
1b. 
1c. 
1. Graph

2a. 
2b. 
2c. 
2d. 
2. Graph

3a. 
3b. 
3c. 
3. Graph

4a. 
4b. 
4c. 
4d. 
4. Graph
Rotate each shape as described.

1) The shape above has the following coordinates:
   A. (1,0)
   B. (8,5)
   C. (7,6)
   Rotate the shape 180° counter-clockwise.

2) The shape above has the following coordinates:
   A. (-5,-1)
   B. (-9,0)
   C. (-6,-6)
   D. (-3,-10)
   Rotate the shape 90° clockwise.

3) The shape above has the following coordinates:
   A. (-3,-5)
   B. (-10,-3)
   C. (-6,-9)
   Rotate the shape 90° counter-clockwise.

4) The shape above has the following coordinates:
   A. (0,-5)
   B. (9,-4)
   C. (8,-7)
   D. (5,-9)
   Rotate the shape 270° clockwise.

Answers

1a. (-1,0)
1b. (-8,-5)
1c. (-7,-6)
1. Graph

2a. (-1,5)
2b. (-0,9)
2c. (-6,6)
2d. (-10,3)
2. Graph

3a. (5,-3)
3b. (3,-10)
3c. (9,-6)
3. Graph

4a. (5,0)
4b. (4,9)
4c. (7,8)
4d. (9,5)
4. Graph
Rotate each shape as described.

1)

The shape above has the following coordinates:
A. (4,0)
B. (8,5)
C. (7,10)
Rotate the shape 90° counter-clockwise.

2)

The shape above has the following coordinates:
A. (1,-5)
B. (10,-1)
C. (9,-7)
D. (2,-9)
Rotate the shape 270° clockwise.

3)

The shape above has the following coordinates:
A. (0,-1)
B. (-9,0)
C. (-10,-7)
Rotate the shape 270° counter-clockwise.

4)

The shape above has the following coordinates:
A. (4,0)
B. (10,5)
C. (8,7)
D. (0,9)
Rotate the shape 90° counter-clockwise.
Rotate each shape as described.

1)

The shape above has the following coordinates:
A. (4,0)
B. (8,5)
C. (7,10)

Rotate the shape 90° counter-clockwise.

2)

The shape above has the following coordinates:
A. (1,-5)
B. (10,-1)
C. (9,-7)
D. (2,-9)

Rotate the shape 270° clockwise.

3)

The shape above has the following coordinates:
A. (0,-1)
B. (-9,0)
C. (-10,-7)

Rotate the shape 270° counter-clockwise.

4)

The shape above has the following coordinates:
A. (4,0)
B. (10,5)
C. (8,7)
D. (0,9)

Rotate the shape 90° counter-clockwise.
Rotate each shape as described.

1) The shape above has the following coordinates:
A. (0,2)
B. (8,1)
C. (10,6)
Rotate the shape 270° counter-clockwise.

2) The shape above has the following coordinates:
A. (0,0)
B. (-9,1)
C. (-6,8)
D. (-3,9)
Rotate the shape 90° counter-clockwise.

3) The shape above has the following coordinates:
A. (0,1)
B. (8,2)
C. (7,9)
Rotate the shape 180° counter-clockwise.

4) The shape above has the following coordinates:
A. (-1,5)
B. (-6,1)
C. (-9,7)
D. (-2,8)
Rotate the shape 180° counter-clockwise.
Rotate each shape as described.

1)

The shape above has the following coordinates:
A. (0,2)
B. (8,1)
C. (10,6)

Rotate the shape 270° counter-clockwise.

2)

The shape above has the following coordinates:
A. (0,0)
B. (-9,1)
C. (-6,8)
D. (-3,9)

Rotate the shape 90° counter-clockwise.

3)

The shape above has the following coordinates:
A. (0,1)
B. (8,2)
C. (7,9)

Rotate the shape 180° counter-clockwise.

4)

The shape above has the following coordinates:
A. (-1,5)
B. (-6,1)
C. (-9,7)
D. (-2,8)

Rotate the shape 180° counter-clockwise.