



1. Find the new position of point (6,5) when rotated through 90° anticlockwise about the origin
(i) (5,6) (ii) ((-5),6) (iii) (5,(-6)) (iv) ((-5),(-6)) (v) (6,(-5))
2. Find the new position of point ((-8),4) when rotated through 90° clockwise about the origin
(i) ((-4),(-8)) (ii) ((-4),8) (iii) (4,8) (iv) (8,4) (v) (4,(-8))
3. Find the new position of point (3,4) when rotated through 180° anticlockwise about the origin
(i) ((-3),(-4)) (ii) ((-4),(-3)) (iii) ((-3),4) (iv) (3,4) (v) (3,(-4))
4. Find the new position of point (2,(-3)) when rotated through 180° clockwise about the origin
(i) (2,3) (ii) ((-2),(-3)) (iii) (3,(-2)) (iv) (2,(-3)) (v) ((-2),3)
5. Find the image of the triangle formed by (6,(-4)), (3,7) and ((-8),(-8)) when rotated about the origin by 90°
(i) (4,6),((-7),3),(6,(-10)) (ii) (4,6),((-5),5),(8,(-8)) (iii) (4,6),((-7),3),(8,(-8))
(iv) (3,7),((-7),3),(8,(-8)) (v) (4,6),((-7),3),(9,(-9))
6. Find the image of the triangle formed by (7,(-2)), (7,6) and (0,(-1)) when rotated about the origin by 180°
(i) ((-7),2),((-7),(-6)),(1,0) (ii) ((-7),2),((-7),(-6)),(0,1) (iii) ((-7),2),((-7),(-6)),((-2),(-1))
(iv) ((-7),2),((-5),(-4)),(0,1) (v) ((-8),3),((-7),(-6)),(0,1)
7. Find the image of the triangle formed by ((-6),(-5)), (2,(-7)) and ((-7),(-4)) when rotated about the origin by 270°
(i) ((-5),6),((-5),0),((-4),7) (ii) ((-5),6),((-7),(-2)),((-4),7) (iii) ((-5),6),((-7),(-2)),((-3),6)
(iv) ((-6),7),((-7),(-2)),((-4),7) (v) ((-5),6),((-7),(-2)),((-6),5)
8. Find the image of the rectangle formed by ((-6),(-6)), (1,(-6)), (1,(-3)) and ((-6),(-3)) when rotated about the origin by 90°
(i) (6,(-6)),(6,1),(4,0),(3,(-6)) (ii) (6,(-6)),(6,1),(3,1),(3,(-6)) (iii) (6,(-6)),(6,1),(3,1),(2,(-5))
(iv) (6,(-6)),(6,1),(1,(-1)),(3,(-6)) (v) (8,(-4)),(6,1),(3,1),(3,(-6))
9. Find the image of the rectangle formed by ((-5),(-2)), (1,(-2)), (1,2) and ((-5),2) when rotated about the origin by 180°
(i) (5,2),((-1),2),(0,(-3)),(5,(-2)) (ii) (5,2),((-1),2),((-1),(-2)),(5,(-2))
(iii) (5,2),((-1),2),((-1),(-2)),(4,(-1)) (iv) (7,4),((-1),2),((-1),(-2)),(5,(-2))
(v) (5,2),((-1),2),((-3),(-4)),(5,(-2))

10. Find the image of the rectangle formed by $(-5, -3)$, $(3, -3)$, $(3, 3)$ and $(-5, 3)$ when rotated about the origin by 270°

(i) $(-3, 5)$, $(-3, -3)$, $(3, -3)$, $(3, 5)$ (ii) $(-3, 5)$, $(-3, -3)$, $(1, -5)$, $(3, 5)$

(iii) $(-3, 5)$, $(-3, -3)$, $(4, -4)$, $(3, 5)$ (iv) $(-3, 5)$, $(-3, -3)$, $(3, -3)$, $(2, 6)$

(v) $(-1, 7)$, $(-3, -3)$, $(3, -3)$, $(3, 5)$

Assignment Key

1) (ii)

2) (iii)

3) (i)

4) (v)

5) (iii)

6) (ii)

7) (ii)

8) (ii)

9) (ii)

10) (i)