



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

10. Find the image of the rectangle formed by $((-3),(-2)),(3,(-2)),(3,4)$ and $((-3),4)$ when rotated about the origin by 270°

- (i) $((-2),3),((-2),(-3)),(4,(-3)),(3,4)$ (ii) $((-2),3),((-2),(-3)),(2,(-5)),(4,3)$
- (iii) $(0,5),((-2),(-3)),(4,(-3)),(4,3)$ (iv) $((-2),3),((-2),(-3)),(4,(-3)),(4,3)$
- (v) $((-2),3),((-2),(-3)),(5,(-4)),(4,3)$

Assignment Key

1) (iv)

2) (i)

3) (i)

4) (ii)

5) (ii)

6) (ii)

7) (iii)

8) (ii)

9) (v)

10) (iv)