EduSahara™ Assignment

Name : Rotation

Chapter : Symmetry, Reflection and Rotation

Grade : ICSE Grade VIII

1. Find the new position of point $((-6),4)$ when rotated through $90°$ anticlockwise about the origin

   (i) $((-4),6)$ (ii) $((-6),(-4))$ (iii) $((-4),(-6))$ (iv) $(4,(-6))$ (v) $(4,6)$

2. Find the new position of point $((-4),(-1))$ when rotated through $90°$ clockwise about the origin

   (i) $((-1),4)$ (ii) $(1,4)$ (iii) $(4,(-1))$ (iv) $(1,(-4))$ (v) $((-1),(-4))$

3. Find the new position of point $(3,6)$ when rotated through $180°$ anticlockwise about the origin

   (i) $((-3),6)$ (ii) $((-3),(-6))$ (iii) $(3,(-6))$ (iv) $(3,6)$ (v) $((-6),(-3))$

4. Find the new position of point $((-6),(-5))$ when rotated through $180°$ clockwise about the origin

   (i) $((-6),5)$ (ii) $(6,5)$ (iii) $(5,6)$ (iv) $(6,(-5))$ (v) $((-6),(-5))$

5. Find the image of the triangle formed by $((-7),(-2)),(2,(-5))$ and $(4,8)$ when rotated about the origin by $90°$

   (i) $(2,(-7)),(5,2),((-7),3)$ (ii) $(2,(-7)),(7,4),((-8),4)$ (iii) $(1,(-6)),(5,2),((-8),4)$

   (iv) $(2,(-7)),(5,2),((-8),4)$ (v) $(2,(-7)),(5,2),((-10),2)$

6. Find the image of the triangle formed by $(6,(-2)),((-7),0)$ and $(6,(-4))$ when rotated about the origin by $180°$

   (i) $((-6),2),(7,0),((-5),3)$ (ii) $((-6),2),(7,0),((-8),2)$ (iii) $((-7),3),(7,0),((-6),4)$

   (iv) $((-6),2),(9,2),((-6),4)$ (v) $((-6),2),(7,0),((-6),4)$

7. Find the image of the triangle formed by $(2,(-1)),((-1),(-1))$ and $((-3),(-3))$ when rotated about the origin by $270°$

   (i) $((-2),(-1)),((-1),1),((-3),3)$ (ii) $((-1),(-2)),((-1),1),((-3),3)$ (iii) $((-1),(-2)),((-1),1),((-2),2)$

   (iv) $((-1),(-2)),(1,3),((-3),3)$ (v) $((-1),(-2)),((-1),1),((-5),1)$

8. Find the image of the rectangle formed by $((-6),(-1)),(0,(-1)),(0,6)$ and $((-6),6)$ when rotated about the origin by $90°$

   (i) $(1,(-6)),(1,0),((-5),(-1)),((-6),(-6))$ (ii) $(3,(-4)),(1,0),((-6),0),((-6),(-6))$

   (iii) $(1,(-6)),(1,0),((-6),0),((-6),(-6))$ (iv) $(1,(-6)),(1,0),((-6),0),((-7),(-5))$

   (v) $(1,(-6)),(1,0),((-8),(-2)),((-6),(-6))$

9. Find the image of the rectangle formed by $((-3),(-2)),(4,(-2)),(4,2)$ and $((-3),2)$ when rotated about the origin by $180°$

   (i) $(3,2),((-4),2),((-6),(-4)),(3,(-2))$ (ii) $(3,2),((-4),2),((-4),(-2)),(3,(-2))$

   (iii) $(5,4),((-4),2),((-4),(-2)),(3,(-2))$ (iv) $(3,2),((-4),2),((-4),(-2)),(2,(-1))$

   (v) $(3,2),((-4),2),((-3),(-3)),(3,(-2))$

10. Find the image of the rectangle formed by $((-5),(-5)),(3,(-5)),(3,1)$ and $((-5),1)$ when rotated about the origin by $270°$

(i) $((-5),5),((-5),(-3)),(1,(-3)),(0,6)$ (ii) $((-5),5),((-5),(-3)),((-1),(-5)),(1,5)$

(iii) $((-5),5),((-5),(-3)),(2,(-4)),(1,5)$ (iv) $((-3),7),((-5),(-3)),(1,(-3)),(1,5)$

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

Assignment Key

1) (iii)	2) (i)	3) (ii)	4) (ii)	5) (iv)	6) (v)
7) (ii)	8) (iii)	9) (ii)	10) (v)		