



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

10. Find the image of the rectangle formed by $(-3, -6)$, $(3, -6)$, $(3, -2)$ and $(-3, -2)$ when rotated about the origin by 270°

- (i) $(-6, 3)$, $(-6, -3)$, $(-2, -3)$, $(-3, 4)$ (ii) $(-6, 3)$, $(-6, -3)$, $(-4, -5)$, $(-2, 3)$
(iii) $(-4, 5)$, $(-6, -3)$, $(-2, -3)$, $(-2, 3)$ (iv) $(-6, 3)$, $(-6, -3)$, $(-1, -4)$, $(-2, 3)$
(v) $(-6, 3)$, $(-6, -3)$, $(-2, -3)$, $(-2, 3)$

Assignment Key

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