



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

Assignment Key

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