

Transformations : Enlargements

1. Find the image of $(1, 1)$, $(2, 1)$, $(1, 3)$ when enlarged by scale factor 2, centre the origin.
 $(2, 2), (4, 2), (2, 6)$
2. Find the image of $(1, -1)$, $(1, 1)$, $(2, 0)$ when enlarged by scale factor -1 , centre $(-1, 1)$.
 $(-3, 3), (-3, 1), (-4, 2)$
3. Find the image of $(1, 5)$, $(3, 5)$, $(3, 3)$ when enlarged by scale factor -2 , centre $(1, 1)$.
 $(1, -7), (-3, -7), (-3, -3)$
4. Find the image of $(4, 4)$, $(6, 6)$, $(2, 8)$ when enlarged by scale factor $\frac{1}{2}$, centre $(-2, -2)$.
5. Find the image of $(-8, 8)$, $(-8, 6)$, $(-7, 8)$ when enlarged by scale factor -3 , centre $(-6, 5)$.
6. Find the image of $(-2, 2)$, $(-2, -2)$, $(2, 2)$, $(2, -2)$ when enlarged by scale factor -2 , centre $(1, -2)$.
7. Find the image of (a, b) when enlarged by scale factor 2, centre $(0, 0)$.
8. Find the image of (a, b) when enlarged by scale factor -3 , centre $(0, 0)$.
9. Find the image of (a, b) when enlarged by scale factor 2, centre $(1, 1)$.
10. Find the image of (a, b) when enlarged by scale factor k , centre $(0, 0)$.
11. Find the image of (a, b) when enlarged by scale factor 3, centre (c, d) .