

Geometry 19: Transformations 2: Enlargements

Learning Work:

An enlargement changes the location and size of an object. The scale factor (k) is the factor by which the object is enlarged.

$$\bullet k = \frac{\text{Image length}}{\text{Object length}}$$

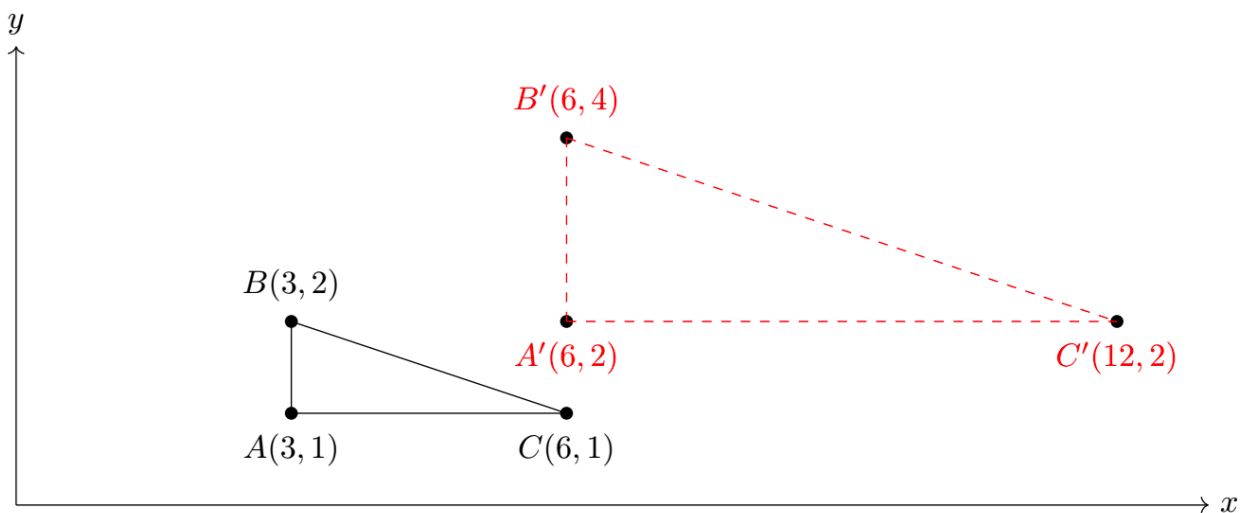
$$\bullet k^2 = \frac{\text{Image Area}}{\text{Object Area}}$$

$$\bullet k^3 = \frac{\text{Image Volume}}{\text{Object Volume}}$$

Questions from GKTuition tutorial:

Example 1:

- (i) Find the centre of the enlargement of the $\triangle abc$
- (ii) Find the value of the scale factor (k)



Example 2:

- (i) Find the scale factor (k).
- (ii) Identify the location of the centre of the enlargement

