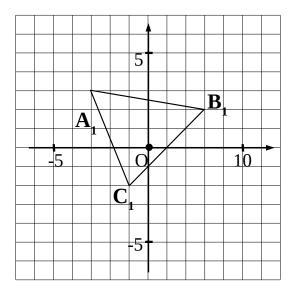
**1.** Vector  $\vec{v}$  presents motion of the plane occurring each second.

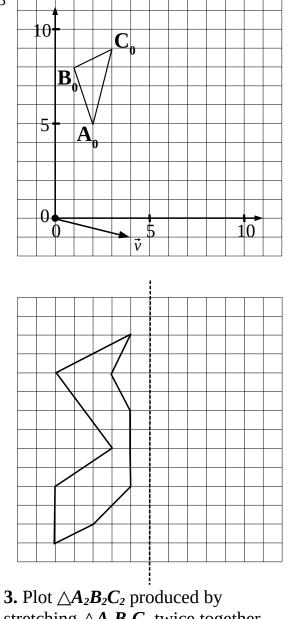
Initially a triangle is located at the position  $\triangle A_0 B_0 C_0$ 

Find  $\triangle A_1 B_1 C_1$ , the position of the original triangle after 1 second.

Find  $\triangle A_2 B_2 C_2$ , the position of the original triangle after 2 seconds.

**2.** Plot the mirror image of the shape.



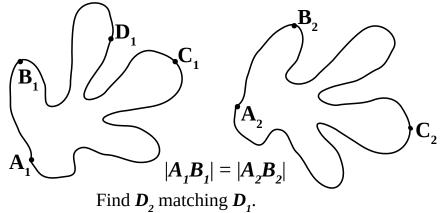


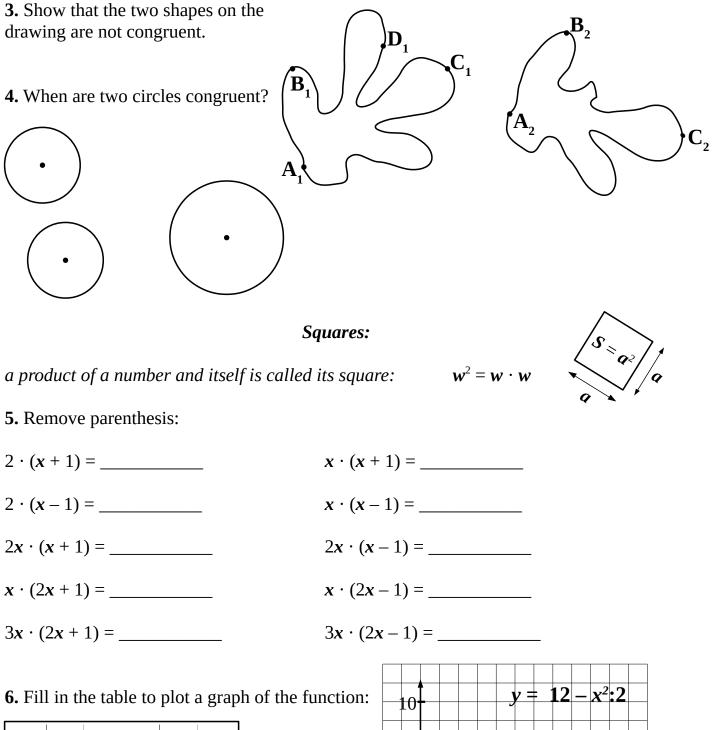
**3.** Plot  $\triangle A_2 B_2 C_2$  produced by stretching  $\triangle A_1 B_1 C_1$  twice together with the plane so that for every point  $X_1$  and its image  $X_2$ :  $\overrightarrow{OX}_2 = 2\overrightarrow{OX}_1$ 

## Congruency.

Sometimes points of two shapes can be matched in such a way that the distance between any two points is equal the distance between the two matching points.

Such two shapes are called **congruent.** 





5

0

10

x	1	2	3	4	5
у					