Introducing loci

Mathematics

Mr Maseko



Try this

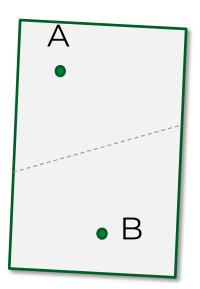
Take a piece of paper. Mark two points A and B.

Fold the paper so that A and B coincide.

Do this again with different locations for A and B.

What do you notice about the relationship between the fold lines and points A and B?

Draw a line segment joining A and B. What do you notice about the relationship between the fold line and the line segment?



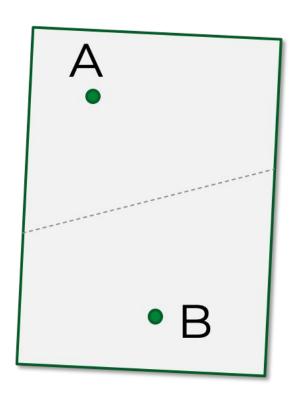


Connect

Locus

The word locus is used to describe the path a point can take

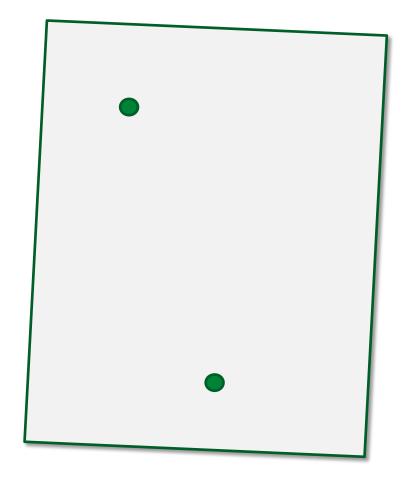
- Mark points on the fold line and measure distance to A and B What do you notice?
- Draw a line connecting A and B. What do you notice?

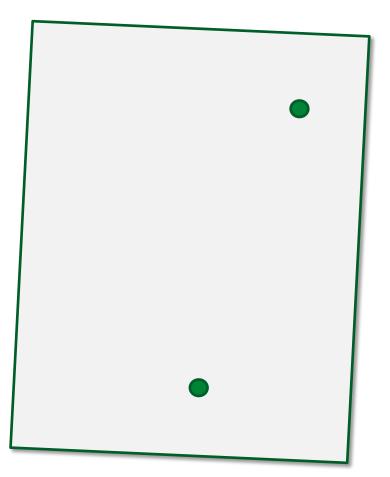




Independent task

Draw a locus of points that are equidistant from the points on each diagram

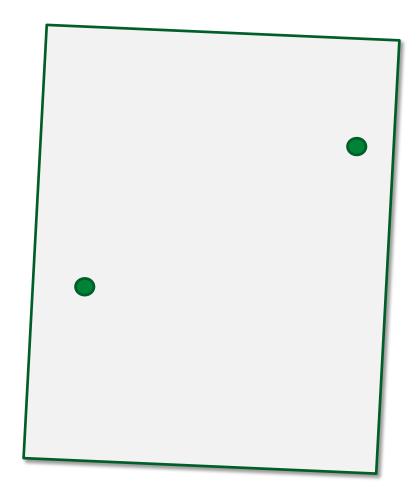


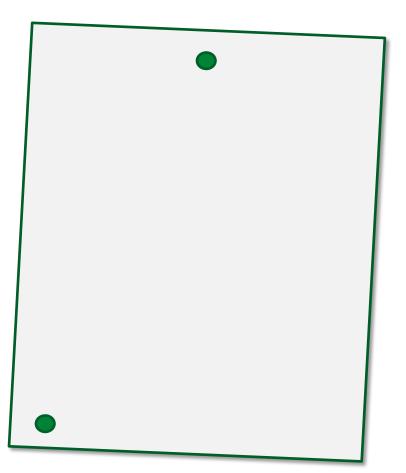




Independent task

Draw a locus of points that are equidistant from the points on each diagram





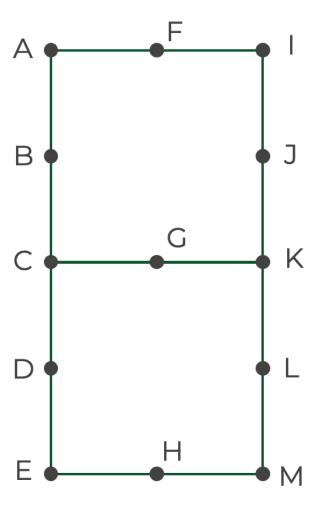


Explore

This shape is formed by joining two squares.

How many ways can you complete these sentences?

- The locus of points equidistant from ____
 and ____ passes through C and K
- The locus of points equidistant from E and K passes through ___ and ___
- The locus of points equidistant from B and __ passes through G and ___
- The locus of points equidistant from ____ and ___ doesn't pass through any marked points





Explore

