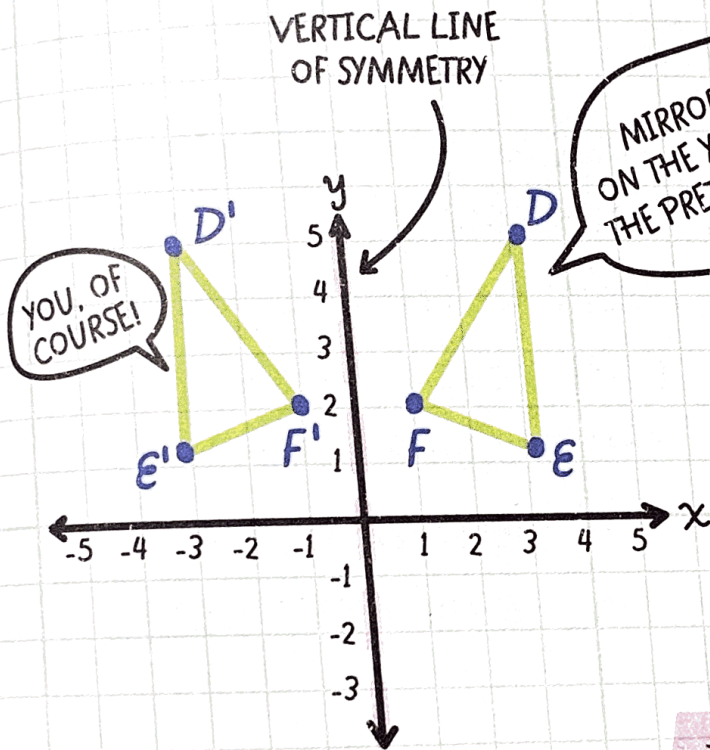


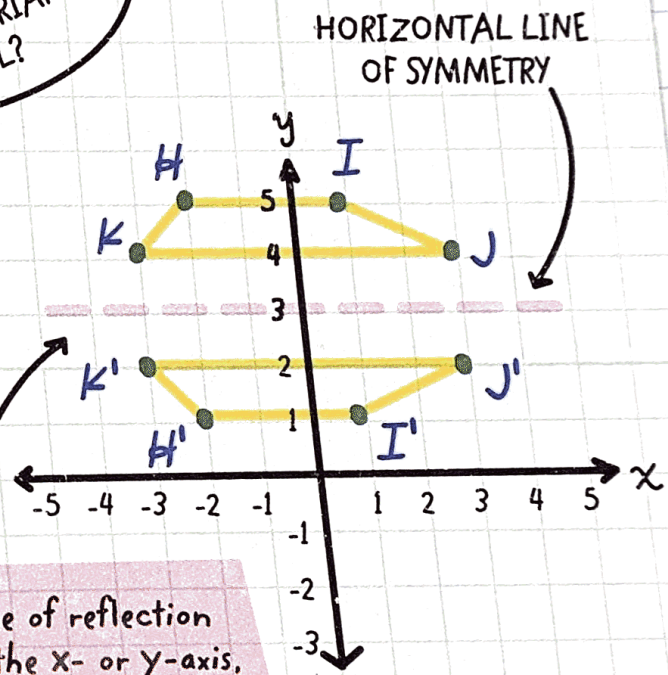
REFLECTION

A **REFLECTION** is a transformation that flips a figure over a **LINE OF SYMMETRY**—if you fold the paper at the line of symmetry, the original and the image would match exactly.

EXAMPLES:



$$\triangle DEF \cong \triangle D'E'F'$$



The line of reflection can be the x- or y-axis, but it doesn't have to be.

$$HIJK \cong H'I'J'K'$$

In both of the reflections above, the original figure and its image are congruent. The original figure and its image are also the same distance away from the line of symmetry, so we can say that they are **EQUIDISTANT** from the line of symmetry.