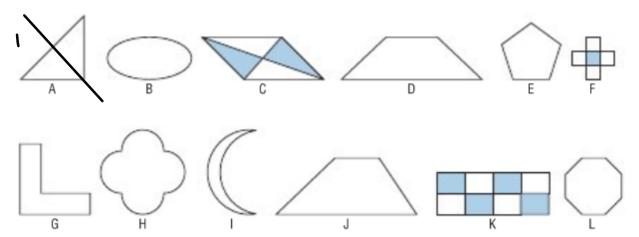
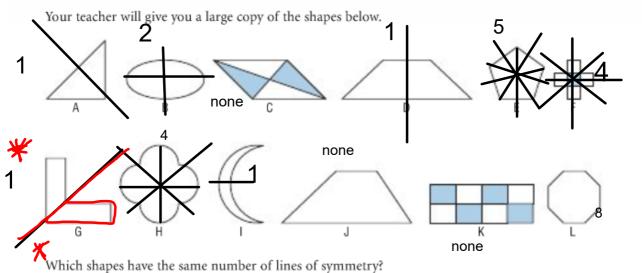


Your teacher will give you a large copy of the shapes below.

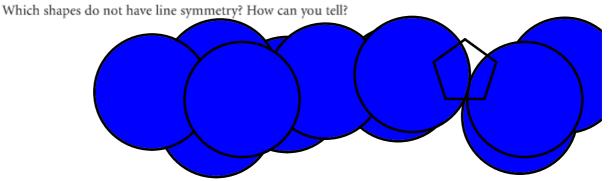


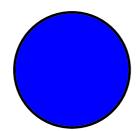
Which shapes have the same number of lines of symmetry? Sort the shapes according to the number of lines of symmetry they have. Which shapes do not have line symmetry? How can you tell?

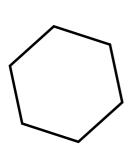
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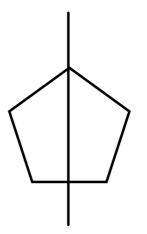


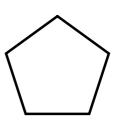
Sort the shapes according to the number of lines of symmetry they have.

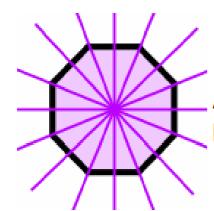






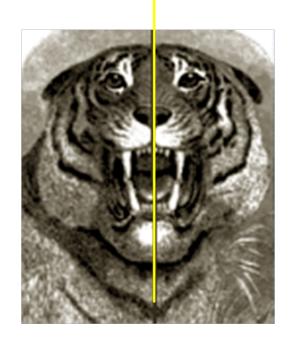






A **Regular Octagon** (8 sides) has **8** Lines of Symmetry

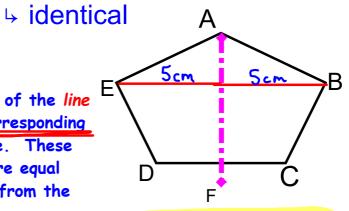
A *line of symmetry* is also known as a *line of reflection*.



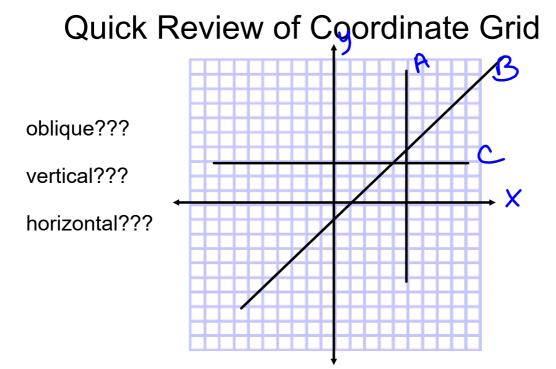
Polygon AFDE is CONGRUENT to polygon AFCB

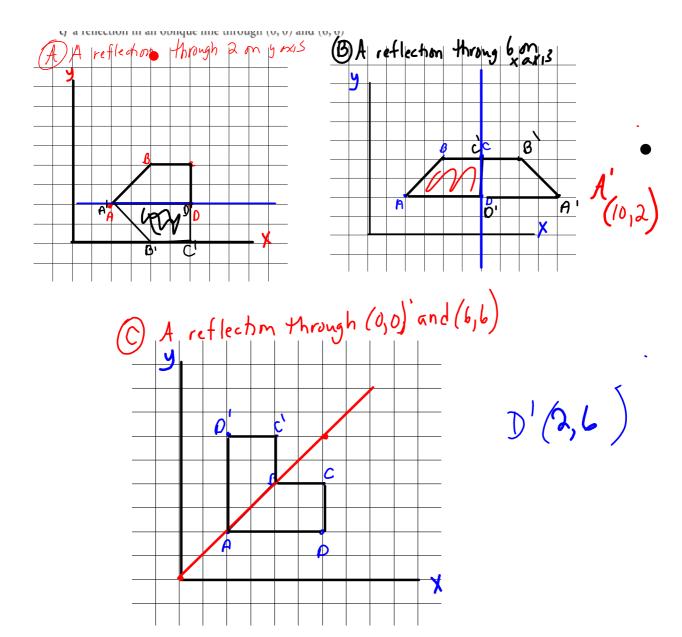
Each point on one side of the line of symmetry has a corresponding point on the other side. These corresponding points are equal distance, equidistant, from the

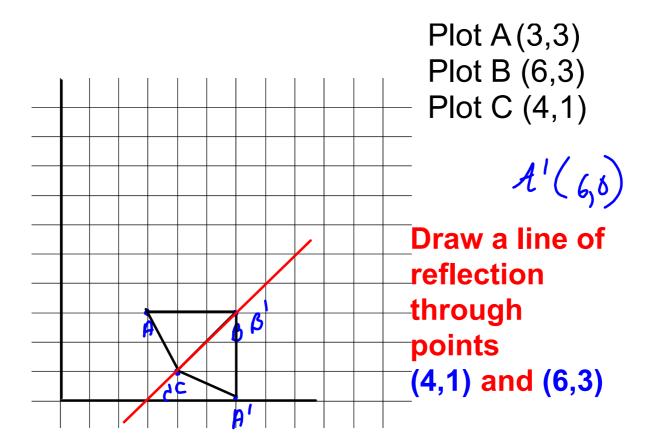
line of symmetry



Not a regular pentagon

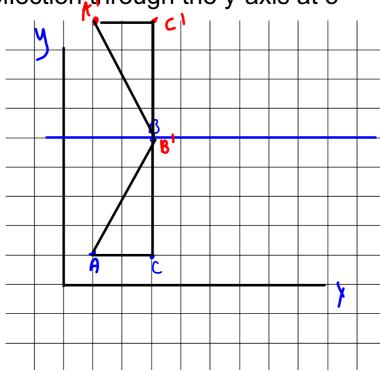






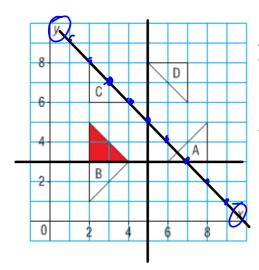
Plot the following points: A (1,1), B (3,5) and C (3, 1)

Draw a reflection through the y-axis at 5



(3,9)

Identify the triangles that are related to the red triangle by a line of reflection. Describe the position of each line of symmetry.



A is $+\infty$ a reflection of the original triangle through $-\infty$ on the $-\infty$ axis

B is/is a reflection of the original triangle through the ______ on the _____ axis

C ∰is not a reflection....

D is/is not a reflection th ind (4, b)