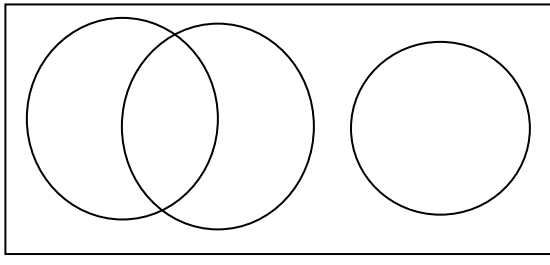


1. Fill in the Venn diagram to show the relationships between the following types of quadrilaterals.

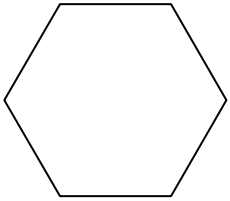


Write trapezoid, rectangle, rhombus, and square in appropriate parts of this Venn diagram.

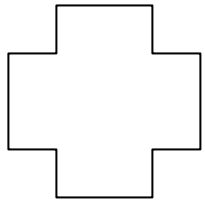
4pts

2. Draw in all the lines of symmetry for this regular hexagon and this “cross”.

a.



b.



2pts

3. What is the smallest number of degrees of rotational symmetry for each shape in problem 2?

a.

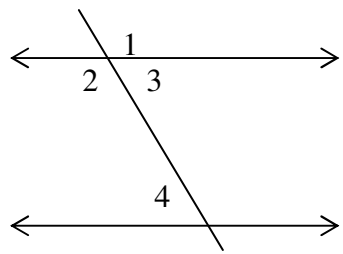
b.

2pts

4. Draw a concave pentagon.

4pts

5. Lines  $m$  and  $l$  are parallel and  $\angle 1 = 130^\circ$ . Consider the measure of each of the other numbered angles then name how each pair is related:



$\angle 1 = \angle 2$  because they are \_\_\_\_\_ angles.

$\angle 3 = \angle 4$  because they are \_\_\_\_\_ angles.

$\angle 3 =$  \_\_\_\_\_ degrees because it is \_\_\_\_\_ to  $\angle 1$ .