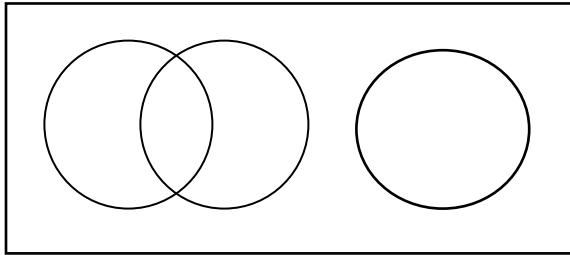


3pts *For an answer to this problem see section 12.1 in your textbook and your class notes.*

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

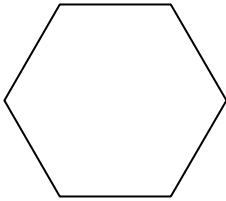


Write trapezoid, rectangle, rhombus, and square in the appropriate parts of this Venn diagram.

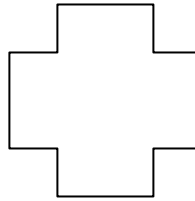
4pts *For an answer to this problem see section 12.2 in your textbook and your class notes.*

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

a.



b.



2pts *For an answer to this problem see section 12.2 in your textbook and your class notes.*

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

a.

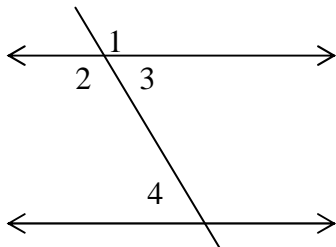
b.

2pts *For an answer to this problem see section 12.2 in your textbook.*

4. Draw a concave pentagon.

4pts *For an answer to this problem see section 12.3 in your textbook and your class notes.*

5. Shown below are two parallel lines with $\angle 1 = 60^\circ$. 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 $\angle 1$.