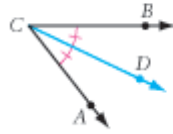


Name _____ Honors Geometry Grade Boost

Part 1: Create-A-Glossary

On separate paper, define and illustrate every term and conjecture that is listed below. Example:

angle bisector



\overline{CD} is the angle bisector of $\angle BCA$.

A ray that has its endpoint at the vertex of the angle and that divides the angle into two congruent angles. (40)

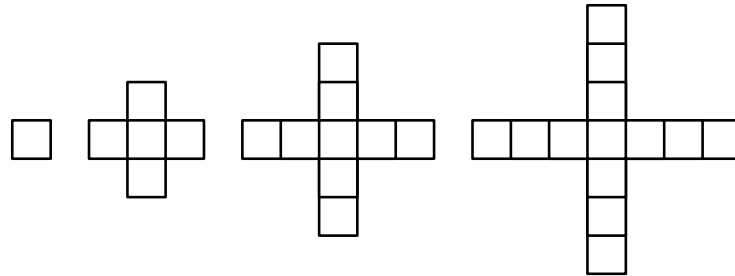
Lesson	Terms and Conjectures
0.1	Reflectional symmetry
	Rotational symmetry
1.1	Point
	Line
	Plane
	Collinear
	Coplanar
	Line Segment
	Midpoint
	Line Bisector
	Ray
1.2	Angle
	Measure of an Angle
1.3	Right Angle
	Acute Angle
	Obtuse Angle
	Complementary Angles
	Supplementary Angles
	Vertical Angles
	Linear Pair of Angles
1.4	Polygon
	Convex Polygon
	Concave Polygon
	Equilateral Polygon
	Equiangular Polygon
	Regular Polygon
	Right Triangle

	Acute Triangle
	Obtuse Triangle
	Scalene Triangle
	Equilateral Triangle
	Isosceles Triangle
	Trapezoid
	Kite
	Parallelogram
	Rhombus
	Rectangle
	Square
	Chord
	Diameter
	Tangent
2.1	Inductive Reasoning
2.4	Deductive Reasoning
	Reflexive Property
	Transitive Property
	Substitution Property
	Addition Property
	Subtraction Property
	Multiplication Property
	Division Property
2.5	Linear Pair Conjecture
	Vertical Angle Conjecture
2.6	Corresponding Angle Conjecture
	Converse of Corresponding Angle Conjecture
	Alternate Interior Angle Conjecture
	Converse of Alternate Interior Angle Conjecture
	Alternate Exterior Angle Conjecture
	Converse of Alternate Exterior Angle Conjecture
	Slope formula

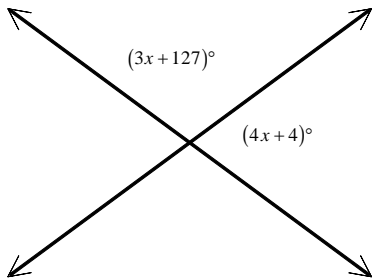
Part 2: Answer the following questions by showing all work.

Short Answer

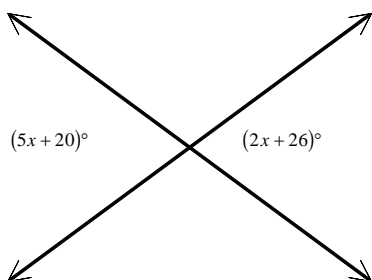
1. Find the rule for the n th figure. Then find the number of tiles in the 200th figure.



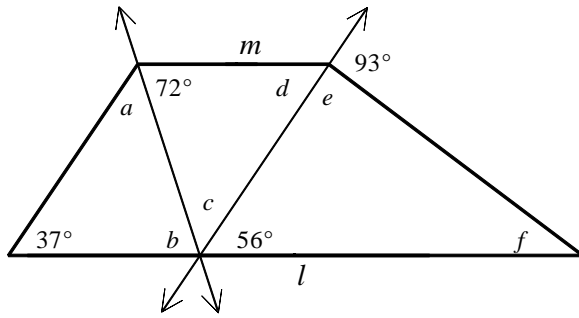
2. Use a deductive argument to explain why the conjecture is true.
Conjecture: The two congruent acute angles formed by a bisector of an obtuse angle must have measures greater than 45° .
3. Solve for x .



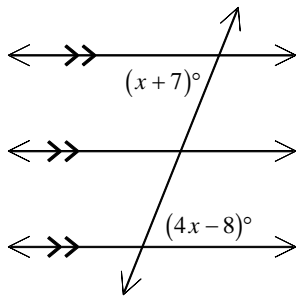
4. Solve for x .



5. Find the unknown angle measures, given that lines l and m are parallel.



6. Find x .

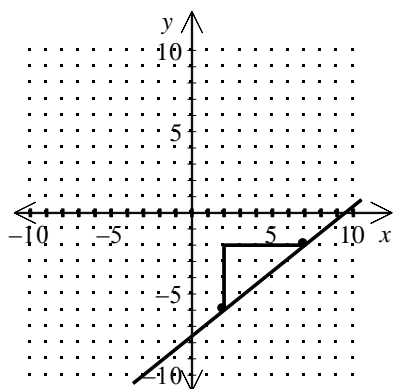


Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 7. Which shows the slope of the line passing through the points $A(-5, 5)$ and $B(3, 7)$?
- | | |
|------------------|------|
| a. $\frac{1}{4}$ | c. 4 |
| b. -6 | d. 2 |
-

8. Use slope triangles to calculate the slope of the graphed line.



a. $-\frac{5}{4}$

b. $\frac{4}{5}$

c. $\frac{5}{4}$

d. $-\frac{4}{5}$