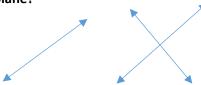
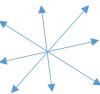
1. Line passing through the same point are concurrent. Into how many regions for 35 concurrent lines

divide the plane?

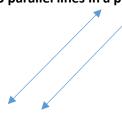


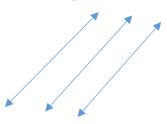


Lines	1	2	3	4	5		n	•••	35
Regions	2					•••		•••	

2. Into how many regions do 35 parallel lines in a plane divide that plane?







Lines	1	2	3	4	5	 n	 35
Regions	2						

3. How many diagonals can you draw from one vertex in a polygon with 35 sides?







Sides					
Diagonals					

4. What's the total number of diagonals in a 35-sided polygon?







Sides					
Diagonals					

	Section 2.3	Name:
For e	xercises 5-13, identify t	the statement as true or false. For each false statement, explain why it is false.
	5. The largest chord o	of a circle is a diameter of the circle.
	6. The vertex of \angle TO	DP is point O.
	7. An isosceles right to	riangle is a triangle with an angle measuring 90° and no two sides congruent.
	8. If AB intersects CD	in point E, then \angle AED and \angle BED form a linear pair of angles.
	9. If two lines lie in the perpendicular.	e same plane and are perpendicular to the same line, then they are
	10. The opposite side:	s of a kite are never parallel.
	11. A rectangle is a pa	arallelogram with all sides congruent.
	12. A line segment tha	at connects any two vertices in a polygon is called a diagonal.
	13. To show that two	lines are parallel, you mark them with the same number of arrowheads.