Name:				1		2	3	4	5	6
Teacher:			Period:				Date:			
Ge	ome	etry	Show	All		No	rk F	or	Cre	dit
1) <i>Midpoint F</i> a) Find th AB wh B = (8	<i>Formula:</i> he midpoir here A = (-2 3, -4).	at C between 2, 4) and	b) Dra	w the	pi		e and la	bel th	e poin	ts.
 2) Circle ID: a) What i b) What i c) What i d) What i 	Be as spective AR ?	eific as possible.	* * *	A				P	R	Q
3) Quadrilater Draw the f	<i>ral ID</i> : following:	a) a kite.	ıbus.	b)	a pa a tra	arallelog pezoid.	gram.		

4) Inductive Reasoning:

What is the 2006th term in this sequence?

9, 14, 19, 24, 29, 34, ... ,

5) *Copying Constructions*: Construct triangle ABC from these parts. Show all construction marks.



6) Constructing Bisectors: Construct an angle bisector and a perpendicular bisector.



A = (2, 5)

B = (7, 10)

Justify your answer.

C = (3, -9)

D = (-6, 0)

A = (4, 10) and B = (7, -2).



9) *Triangle Congruency:* If the triangles are congruent, then write a) the appropriate conjecture, and b) the congruency statement. If they are not, then tell why.



10) Triangle Proofs: Prove that $\triangle ABD \cong \triangle CBD$.



11) Polygon Angles:

What is the interior angle sum of a 13-gon?

The interior sum of what polygon is 5040° ?

12) *Trapezoids:* Solve for a, b, c, and d.



13) *Kites:* Solve for a, b, c, and d.



- 14) Transformations:
 - a) Draw: (x, y) 🔶 (x + 1, -y)



b) Fill in the translation:





16) *Trapezoids:* Find the area of the trapezoid.





17) *Cylinders:* Find the surface area of this cylinder. Round your answer to one decimal place.





18) *Pyramids:* Find the surface area of this pyramid. The base is a regular octagon. Round your answer to one decimal place.



19) *Cones:* Find the surface area of this cone.





Solve for x.



Is this triangle acute, obtuse, or right?



21) Special Triangles:





24) Similar Area / Volume

It takes 12 gallons of paint to cover a wall that is 15 feet x 20 feet. How many gallons of paint would it take to cover a wall that is 45 feet x 60 feet?



25) *Sine/Cosine/Tangent:* Solve for x.



26) Law of Sines: Fill in the missing parts of this triangle.



27) Logical Statements: Give the inverse, converse, contrapositive and truth values.

<u>Statement</u>	<u>Converse</u>					
	If there isn't anything good on tv then we will have to read a book.					
<u>Inverse</u>	<u>Contrapositive</u>					
28) Logical Arguments: Identify these arguments as either modus ponens, modus tollens, the law of syllogism, or invalid. Then give the conclusion.						
If money makes the world go 'round, then we will fly off. If money makes the world go 'round, then we must all get jobs.	If I eat all my food then I will become short. I am tall.					
Argument:	Argument:					
Conclusion:	Conclusion:					

29) Venn Diagrams:

Shade the correct region:



Give the Venn notation:



30) *3D Visualization:* Draw

Draw the net for this solid.

