Review: 1ST NINE WEEKS

NAME:	DATE:	PERIOD:
	Mark planted two trees on a planning grid at coordinates (0, 8) and (12, 4). He wants to plant a row of hedges such that any hedge is the same distance from each of the two trees, which lies on the perpendicular bisector.	
1	1. Determine the midpoint of the line segment conr	ecting the two trees.
2	2. Find the distance between the two trees.	
3	3. Determine the slope of the line connecting the tre	es.
4	4. Write an equation for the line segment connecting	g the two trees.
5	 Determine the slope of the line of the hedges, wh to #3. 	ich would be perpendicular
6	6. Write an equation for the line segment containing	the hedges.

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Consider the conditional statement for # 10-12. If the light is red, then I stop.

10. Write the inverse.

11. Write the converse.

12. Write the contrapositve.

13. What conclusion follows from the two statements given below?If Dusty is in Fredericksburg, then Dusty is in Virginia.If Dusty is at the George Washington Masonic Museum, then Dusty is in Fredericksburg.

14. What statement follows from the two statements given below? All guinea pigs have four legs. Squirt is a guinea pig.

15. Matt made the conjecture that the sum of two numbers is always greater than either number. Find a counterexample for his conjecture.



Sketch the following description.

- 21. 21. An architect checked an assistant's floor plans for a house and found some errors. She left a note asking the assistant to draw $\angle B$ supplementary to $\angle A$, and $\angle C$ complementary to $\angle B$.
- 22._____ 22. Two angles are supplementary. The measure of one of the angles is 8 times the measure of the other. What is the measure of the *larger* angle?

23._____

23. Fill in each missing statement or reason in the following proof.



Given: $\overline{BC} \cong \overline{DC}$; \overline{AC} bisects $\angle BCD$

Prove: $\triangle ABC \cong \triangle ADC$

Statements	Reasons
$\overline{BC} \cong \overline{DC}$; \overline{AC} bisects $\angle BCD$	
	Definition of
$\overline{AC} \cong \overline{AC}$	
$\Delta ABC \cong \Delta ADC$	

24._____

24. Solve the equation and fill in match each statement with a reason in the box

Given: 4(3x + 5) = 12 - 2x

Prove:
$$x = \frac{-4}{7}$$

Simplify	Statements	Reasons
Given	4(3x + 5) = 12 - 2x	
Division Property of Equality		
Subtraction Property of Equality		
Simplify		
Simplify		
Addition Property of Equality		
Distributive Property		