Unit 2 Corrective Assignment

Rewrite the given statement into if-then form. Then tell what the converse, inverse, contrapositive is.

1pt each



- If-Then Conditional statement: a.
- b. Hypothesis:
- c. Conclusion:
- d. Converse:
- Inverse: е.
- f. Contrapositive:

Determine the truth-value for the following statements. If a statement if false, give a counter example.

1pt each

- 2. If a number is divisible by 12, it is divisible by 5.
- 3. If you have a pet, you have a fish.
- If you have Mr. Brust, you go to Ramstein HS. 4.
- 5. If you like hamburgers, you like McDonalds.

Find a pattern for each sequence. Use the pattern to find the next two terms.

2pts each

- 6.
- 6, 11, 16, 21... 7. 12, 15, 18, 21, 24...
- 8. 1, 1, 2, 3, 5, 8, 13 ...

Use the sequence and inductive reasoning to make a conjecture:

















- What pattern is in the 29th figure? 9.
- What is the shape of the 21th figure? 10.

Give a logical conclusion and support with a valid reason.

1pt each

- **11.** Given:
- x + 5 = -5
- **12.** Given: 2x 5x = 30
- **13.** Given: -x = 12

Conclusion:

Conclusion:

Reason:_____

Reason:

Reason:

Statement	Reason 1pt each
1. $2(2x - 3) + 1 = 29 + 5x$	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.

Unit 2 Application

Given: **∡2** ≅ **∡1** Prove: **43** ≅ **44**

2pts each

Statement

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	Statement		Reason	
	1.	₹2 ≅ ₹1	1. Given	
(food	2.	42 ≅ 44	2.	
<u>G</u>	3.		3. Vertical angles are congruent	
#15	4.	44 ≅ 43	4.	(Steps 1,2,)
	5.		5.	
	6.		6.	

Algebra Review

1/2pt each

rigoria notice					
Solve each	equation for x!	Multiply!	Factor!		
1. 3x - 1= 17	2.3x - 2 = 20x - 19	3. 4x(x – 5)	4. 12x² – 6x		
5. Graph the equation: $y = 1 - 3x$	-5 -4 -3 -2 -1 1 2 3 4 5	6. Graph the equation: $x = 3$	-5 -4 -3 -2 -1 1 2 3 4 5		

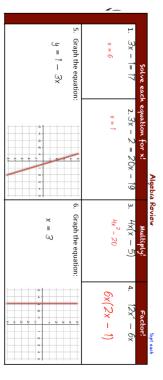
Unit 2 Corrective Assignment Solutions

Rewrite the given statement into if-then form. Then tell what the converse, inverse, contrapositive is.

All Algebros stink. 1.

- b. If a person is an Algebro
- If a person is an Algebro, then that person stinks.
- If a person stinks, then that person is an Algebro. then that person stinks. c.
- If a person is not an Algebro, then that person does not stink.
- f. If a person does not stinks, then that person is not an Algebro.
- 2. False (12 is divisible by 12 by not 5.)
- 3. False (You could have a pot-bellied pig)
- True. (Unless you argue that there is a different Mr. Brust in a different school.) 4.
- 5. False (You might like Burger King hamburgers but not McDonalds.)
- 6. 26, 31
- 7. 27, 30
- 8. 21, 34 (add two previous terms)

- 9. //////
- 10.
- Circle 11. x = -10, subtraction 12. -3x = 30, Combine Like Term



13. Given: x = 12, Div property

Given: 2(2x - 3) + 1 = 29 + 5x

Prove: x = -34

Stat	ement	Rea	ason	1pt each
1.	2(2x - 3) + 1 = 29 + 5x	1.	Given	
2.	4x - 6 + 1 = 29 + 5x	2.	Distributive Property	
3.	4x - 5 = 29 + 5x	3.	Combine Like Terms	
4.	-5 = 29 + x	4.	Subtraction Property	
5.	-34 = x	5.	Subtraction Property	
6.	x = -34	6.	Symmetric Property	

Statement

Reason

	1.	42 ≅ 41	1. Given
	2.	42 ≅ 44	2. Vertical Angles are congruent
	3.	≰1 ≅ ≰3	3. Vertical angles are congruent
)	4.	44 ≅ 41	4. Substitution Property (Steps 1,2)
	5.	44 ≅ 43	5. Substitution Property (Steps 3, 4)
	6.	43 ≅ 44	6. Symmetric Property