9/27 Do Now



DO NOW	Name_	Date	Per

- (1) Why is it important in life to know when things are parallel?
- (2) When do we use the term "parallel" when we are not talking about math?

SLO: I can identify and name parallel lines and angle relationships involving parallel lines and use the angle relationships to write and solve equations.

9/27 Announcements

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9/27 Assignment sheet



Class				FEIIOU		
	DATE	CLASSWORK ASSIGNMENT		HOMEWORK ASSIGNMENT		
	9/24	Test Review, Unit 1 work	due	Unit 1 Summary	due	
		Perfection	9/17	-	9/25	
	9/25	Unit 1 Test	due	GET A COMPASS!!!	due	
			9/25		9/26	

9/27 Parallel lines angle Parallel lines angle relationships 9/27 relationships HW 9/28

9/26

due

9/28 Proving Lines are Parallel Proving Lines are Parallel 9/28 10/1

9/28

10/1 Parallel Lines Problem Solving

Unit 2 PreTest & Unit 1

reflection

Clace

9/26

Parallel lines Problem
Solving

Dariod

GET A COMPASS!!!

10/1

due

9/27

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9/27 HW Check and Questions

SLO: I can identify and name parallel lines and angle relationships involving parallel lines and use the angle relationships to write and solve equations.

CLASSWORK: Parallel Lines, Transversals, and Angle Relationships

Parallel: How can we be sure that lines are parallel? By demonstration? By construction? By graph?

Example: Because they are in the same plane and are always the same distance apart and never intersect, lines ℓ and m are parallel. We show that lines are parallel by marking them with arrows or carrots $^{\wedge}$.

S m

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Explore Parallel Lines:

a. Trace line AB on tracing paper. Slide the tracing paper and make a copy of line AB below the original – try to make it parallel. Label the copy A'B'.

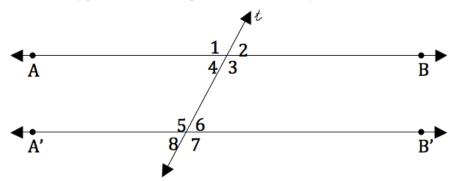


Copy:

b. Are you absolutely certain that the copy you made is parallel to line AB? Justify why or why not.

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e. When you slid the copy down, the angles also were copied. ∠1 became ∠ ____ so we can say ∠____ ≅ ∠____



 \angle 1 became \angle ____ so we can say \angle ___ \cong \angle ___ so we can say \angle ___ \cong \angle ___

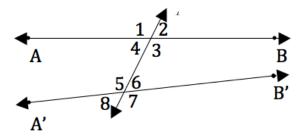
 \angle 3 became \angle ____ so we can say \angle ___ \cong \angle ___ so we can say \angle ___ \cong \angle ___

f. These angle pairs are called **corresponding angles** because they are in the same relative location with respect to the transversal. They are congruent when formed by parallel lines and a transversal.

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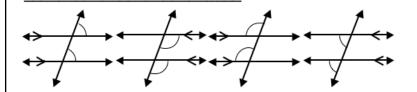
CLASSWORK: Parallel Lines, Transversals, and Angle Relationships

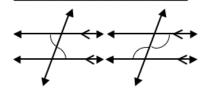
g. What if your paper turns and AB and A'B' are not parallel? Are corresponding angles still congruent? Justify why or why not.

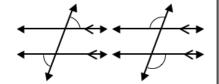


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h. What are all of the pairs of angles that are congruent because a transversal intersects 2 parallel lines?

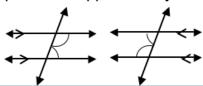






i. Besides angles that are congruent, there are pairs of supplementary angles. Which pairs are supplementary?

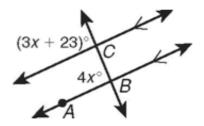




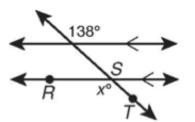
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CLASSWORK: Problem Solving with Parallel Lines Find each angle measure.

3. m∠ABC

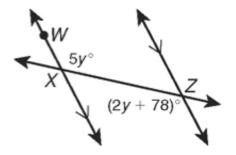


4. m∠RST

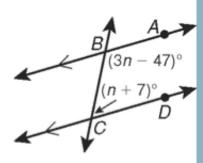


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11. m∠*WXZ*



12. m∠*ABC*



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CLASSWORK: Problem Solving with Parallel Lines

For each diagram:

IDENTIFY the relationship. Match the relationships below to the diagrams.

Complementary

Corresponding

Alternate Interior

Alternate Exterior

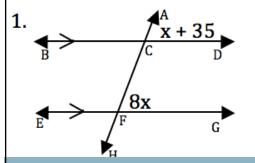
Supplementary Ve

Vertical

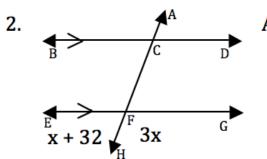
Same Side Interior

WRITE an equation for pairs that are complementary or supplementary

SOLVE the equation & find the measure of the angle

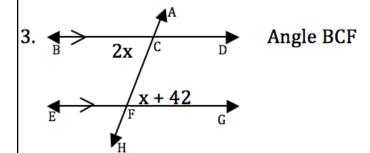


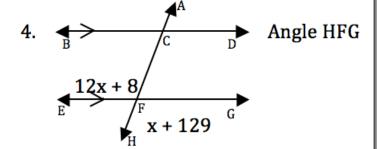
Angle ACD



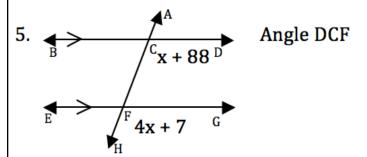
Angle EFH

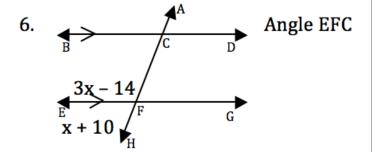
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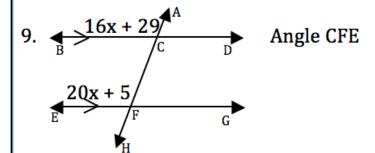


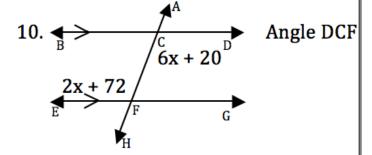
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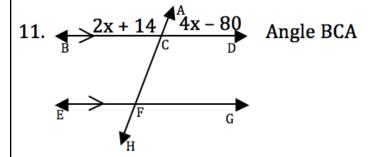


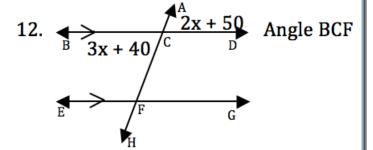
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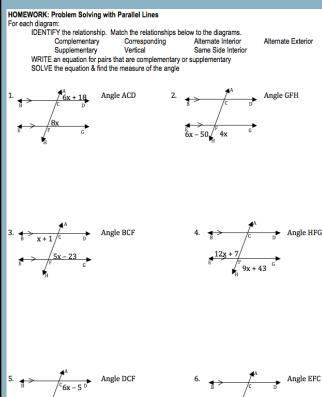


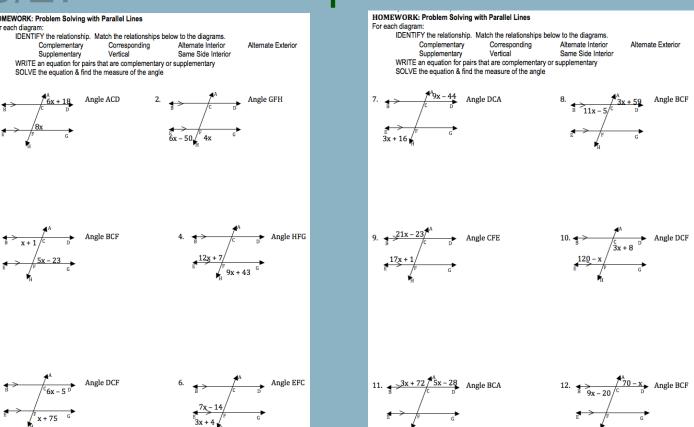
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9/27 Geometry PRIDE

Names & accomplishments

CCSS Standard:

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SLO: I can identify and name parallel lines and angle relationships involving parallel lines and use the angle relationships to write and solve equations.

NYS Standard: **G.G.35** Determine if two lines cut by a transversal are parallel, based on the measure of given pairs of angles formed by the transversal and the lines

Ticket out the door Name_____ Date____ Per___

⊗ 1 2 3 4 5 ⊕ because:

Rate how well you met today's SLO (Student Learning Objective). What helped you most? What do you still need to work on?

9/17 **Quiz**

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

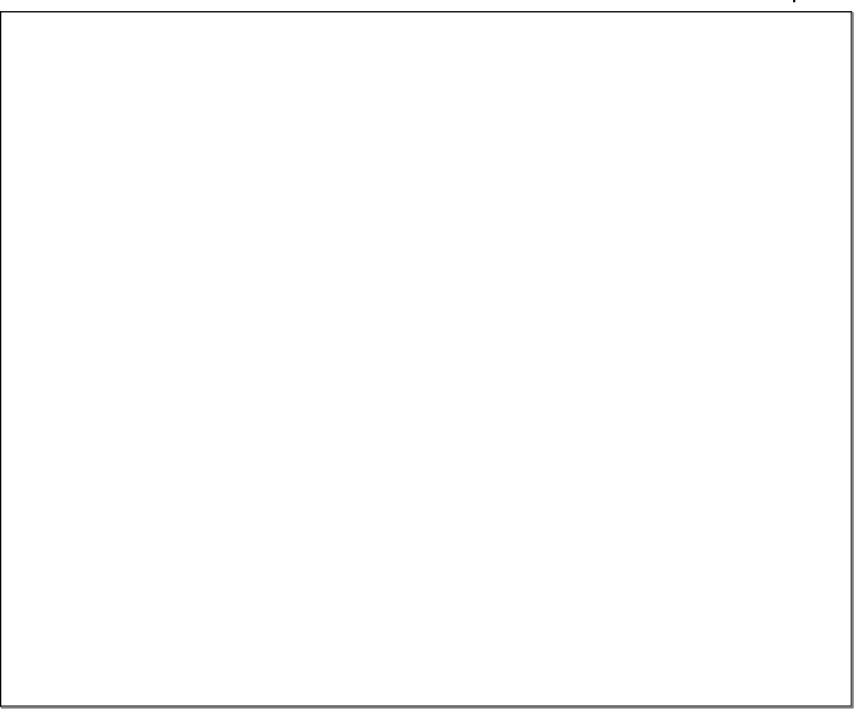
9/17 **Test**

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:



c. Line up your tracing paper over line AB below and trace line t (called a transversal) that crosses line AB. Slide the tracing paper down line t and make a copy of line AB and label it A'B'.

Line AB:

Copy:



d. Are you absolutely certain that the copy you made is parallel to line AB? Justify why or why not.

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