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DO NOW

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DO NOW	Name	Date	Per_

- (1) Sketch parallel lines m and n. Sketch transversal t.
- (2) Label a pair of corresponding angles with a "c" in each angle Label a pair of alternate interior angles with an "i" in each angle Label a pair of alternate exterior angles with an "e" in each angle Label a pair of supplementary angles with an "s" in each angle

SLO: Use the measures of angle pairs to prove that lines are parallel.

10/2 Announcements

- 1. You need a compass EVERY day in this class incase we do constructions. You MUST have a compass to complete the homework. You MUST have a compass by Wednesday.
- 2. Group test Friday

SLO: Use the measures of angle pairs to prove that lines are parallel.

10/2 Assignment sheet

Class _		Period		
DATE	CLASSWORK ASSIGNMENT	HOMEWORK ASSIGNMENT		
10/1	Unit 1 Reflection	Unit 1 Reflection		
	10/2	10/2		
10/2	Proving Lines Parallel due	Proving Lines Parallel due		
	10/2	10/3		
10/3	Constructing Parallel Lines due	Constructing Parallel Lines due		
	10/3	10/4		
10/4	Parallel Lines on a Coordinate	Parallel Lines on a Coordinate		
	grid 10/4	grid 10/5		
10/5	Group Test Parallel Lines	Parallel Lines Review due		
	10/5	10/8		
	di.	d		

SLO: Use the measures of angle pairs to prove that lines are parallel.

10/2 HW Check and Questions

Turn in Unit 1 reflection

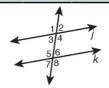
SLO: Use the measures of angle pairs to prove that lines are parallel. NYS Standard: **G.G.35** Determine if two lines cut by a transversal are parallel, based on

the measure of given pairs of angles formed by the transversal and the lines

Geometry: Parallel and Perpendicular Lines CLASSWORK: Proving Lines are Parallel
Postulate: If $a b$ and both intersect transversal t , then corresponding angles are congruent.
Converse:
Theorem: If $a b$ and both intersect transversal t , then alternate interior angles are congruent.
Converse:
Theorem: If $a b$ and both intersect transversal t , then alternate exterior angles are congruent.
Converse:
Theorem: If $a b$ and both intersect transversal t , then same side interior angles are supplementary.
Converse:
SLO: Use the measures of angle pairs to prove that lines are parallel. 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

For Exercises 3–5, use the theorems and the given information to show that $j \parallel k$.

3. Given: $\angle 4 \cong \angle 5$

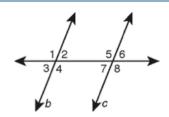


4. **Given:** $m\angle 3 = 12x^{\circ}$, $m\angle 5 = 18x^{\circ}$, x = 6

5. **Given:** $m\angle 2 = 8x^{\circ}$, $m\angle 7 = (7x + 9)^{\circ}$, x = 9

SLO: Use the measures of angle pairs to prove that lines are parallel.

Use the figure for Exercises 2 and 3. Given the information in each exercise, state the reason why lines b and c are parallel.

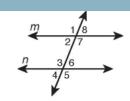


0. ∠4 ≅ ∠8

7.
$$m \angle 3 = 68^{\circ}$$
, $m \angle 7 = (5x + 3)^{\circ}$, $x = 13$

SLO: Use the measures of angle pairs to prove that lines are parallel.

Use the figure for Exercises 8–15. Tell whether lines m and n must be parallel from the given information. If they are, state your reasoning. (*Hint:* The angle measures may change for each exercise, and the figure is for reference only.)



9.
$$\underline{m} \angle 3 = (15x + 22)^{\circ}, \ \underline{m} \angle 1 = (19x - 10)^{\circ}, \ x = 8$$

11.
$$\underline{\mathsf{m}} \angle 2 = (5x + 3)^\circ$$
, $\underline{\mathsf{m}} \angle 3 = (8x - 5)^\circ$, $\underline{\mathsf{x}} = 14$

12.
$$\underline{m} \angle 8 = (6x - 1)^{\circ}, \, \underline{m} \angle 4 = (5x + 3)^{\circ}, \, x = 9$$

15.
$$\underline{\mathsf{m}} \angle 6 = (x+10)^\circ, \, \underline{\mathsf{m}} \angle 2 = (x+15)^\circ$$

SLO: Use the measures of angle pairs to prove that lines are parallel.

16. A bedroom has sloping ceilings as shown. Marcel is hanging a shelf below a rafter. If $m \angle 1 = (8x - 1)^{\circ}$, $m \angle 2 = (6x + 7)^{\circ}$, and x = 4, show that the shelf is parallel to the rafter above it.

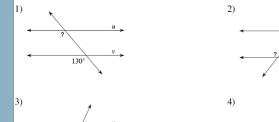


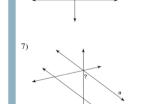
SLO: Use the measures of angle pairs to prove that lines are parallel.

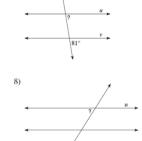
10/2 Proving that lines are Parallel HOMEWORK

(A) NAME THE ANGLE RELATIONSHIP AND

(B) Find the measure of the indicated angle that makes lines u and v parallel.







7? u > v > 66° / v >

SLO: Use the measures of angle pairs to prove that lines are parallel.

10/2 Geometry PRIDE

Names & accomplishments

SLO: Use the measures of angle pairs to prove that lines are parallel.

10/2 Ticket Out the Do	oor			
SLO: Use the measures of angle pairs to prove that lines are parallel. 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 ⊗ 1 2 3 4 5 ☺ because:	Date Per			
Rate how well you met today's SLO (S Objective). What helped you most? W 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: