Name	
Hour	Date

 For #1 and 2, refer to the figure at the right. 1. Which segment is parallel to <i>IJ</i>? 					
	A. \overline{GH}	B. \overline{AJ}	C. \overline{HI}	D. \overline{AB}	
2.	Which plane is paral	lel to plane CDF?			C D
	A. plane <i>BEF</i>	B. plane <i>HIJ</i>	C. plane <i>ABE</i>	D. plane <i>ABC</i>	ŗ

For #8-16, refer to the figure below. Identify each pair of angles as alternate interior, alternate exterior, corresponding, or consecutive interior angles.

3.	$\angle 2$ and $\angle 7$	4.	$\angle 5$ and $\angle 13$
5.	$\angle 7$ and $\angle 11$	6.	$\angle 6$ and $\angle 9$
7.	$\angle 4$ and $\angle 15$	8.	$\angle 2$ and $\angle 3$
9.	$\angle 10$ and $\angle 12$	10.	$\angle 11$ and $\angle 14$

For #11 and 12, refer to the figure at the right.

Geometry A

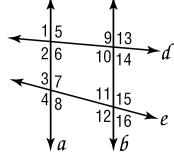
Unit 3 Additional Practice

- Given a // b and $m \angle 6 = 89^\circ$, find $m \angle 14$. 11.
- Given a // b and $m \angle 7 = 104^\circ$, find $m \angle 11$. 12.

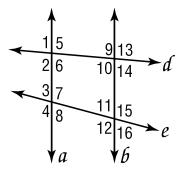
Suppose $a \mid | b, m \ge 8 = 4x + 10, m \ge 12 = 7x - 17$, and $m \ge 11 = 3y$. 13.

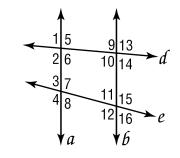
a. Find the value of *x*.

b. Find the value of *y*.



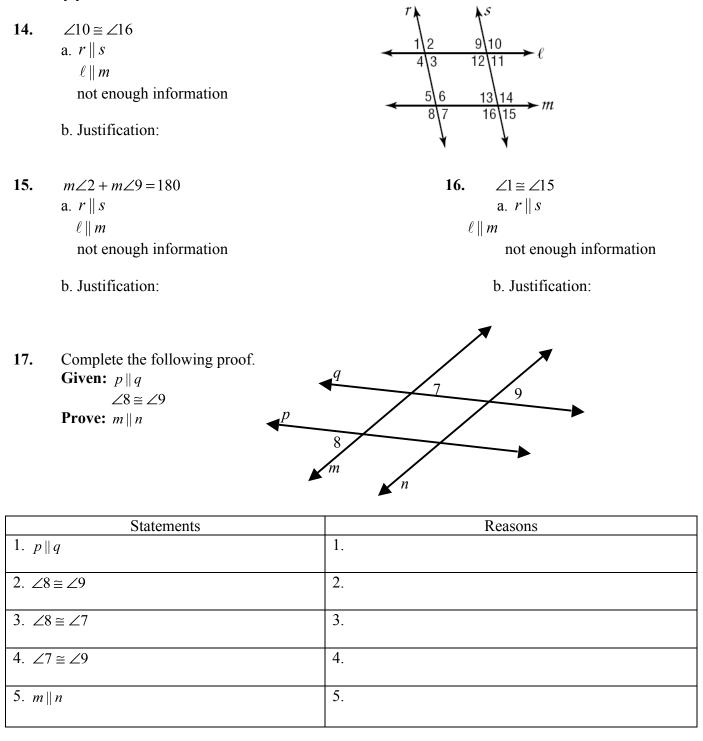
G





For #14-16, for the given information,

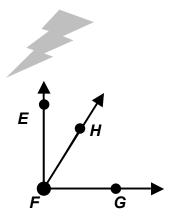
a. Determine which lines are parallel or choose "not enough information"b. Justify your answer.



- **18.** If \overline{AB} has a slope $=\frac{20}{6}$, \overline{CD} has a slope $=-\frac{10}{3}$, \overline{EF} has a slope $=\frac{15}{50}$, and \overline{GH} has a slope $=\frac{3}{10}$. a. Identify two lines that are parallel.
 - b. Identify two lines that are perpendicular.

Unit 1&2 FLASHBACK

19. Suppose $\overrightarrow{FE} \perp \overrightarrow{FG}$, $m \angle EFH = (2x - 10)^\circ$, and $m \angle HFG = (3x + 25)^\circ$. Find *x*, and $m \angle EFH$



20. Suppose $\angle 1$ and $\angle 2$ form a linear pair. If $m \angle l = (5x + 20)^\circ$, and $m \angle 2 = (3x + 56)^\circ$, find x.

- 21. Suppose *C* is between *A* and *B*. If AB = 26.5 and BC = 12.3, find *AC*.
- 22. Find the midpoint of \overline{CD} with endpoints C(-3, 7) and D(1, 2). In what quadrant is the midpoint?

Write the property, definition or theorem that justifies each statement.

- 23. If $m \angle 1 = m \angle 2$, then $m \angle 2 = m \angle 1$.
- 24. If AB = CD, then 3AB = 3CD.
- **25.** If $m \angle 1 + m \angle 2 = 110^{\circ}$ and $m \angle 2 = m \angle 3$, then $m \angle 1 + m \angle 3 = 110^{\circ}$.
- **26.** If *B* is in the interior of $\angle ACD$, then $m \angle ACB + m \angle BCD = m \angle ACD$.
- **27.** If *E* is the midpoint of \overline{XY} , then $\overline{XE} \cong \overline{EY}$.
- **28.** 6(x-7) = 6x 42
- **29.** If *B* is between *C* and *D*, then CB + BD = CD.