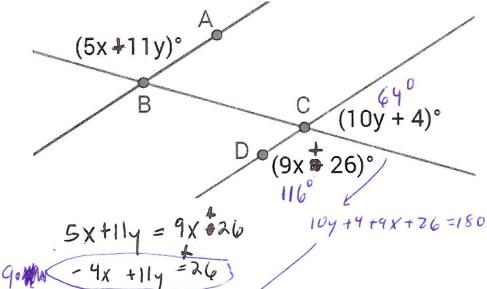
Name: AK	Period:	Date:
Unit 3 Practice Test 1. Using the figure to the right, Corresponding Angles	identify each pair of:	
1,5 2,6	3,7 4,8	1 \ 2
Alternate Interior Angles		3 4
Consecutive Interior Angles		
3,5 4,6		5 \ 6
Vertical Angles	5,8 6,7	7 8
2. Which of the following pairs transversal? Circle all that appl		f they are formed by parallel lines and a
A. a linear pair of angles	B. vertical angles	C. corresponding angles
D. alternate interior angles	E. alternate exterior angles	F. consecutive interior angles
3. Which of the following pairs transversal? Circle all that appl	of angles are always supplement y.	tary if they are formed by parallel lines and a
A linear pair of angles	B. vertical angles	C. corresponding angles
D. alternate interior angles	E. alternate exterior angles	F. consecutive interior angles
G. vertical angles formed by pe	rpendicular lines	
4. Find the measure of each mi angle in the picture on the right		45° e° a° 45° 45° 45° 45°
		107°/b°73°

5. Given AB || CD, find x and y.



$$-36x + 999 = 239$$

 $36x + 999 = 600$
 $1399 = 839$
 $y = 6$

6. Are lines a and b parallel given the information below? Also, find x and y.

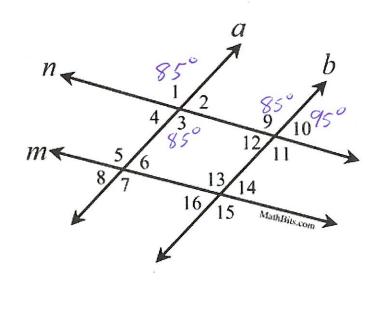
Angle 1 =
$$10x + 5$$
 % 5°
Angle 3 = $53 + 4x$ % 5°
Angle 9 = $3y + 100$ % 5°
Angle 10 = $100 + y$ % 5°

$$10x+5=53+4k$$

 $6x=48$
 $X=8$

$$3y + 100 + 100 + y = 180$$

 $4y + 200 = 180$
 $4y = -20$
 $y = -5$



7. True or False.

You can assume:

line CD || line BH



F

line EG || line BH

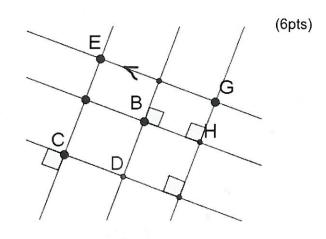
Т



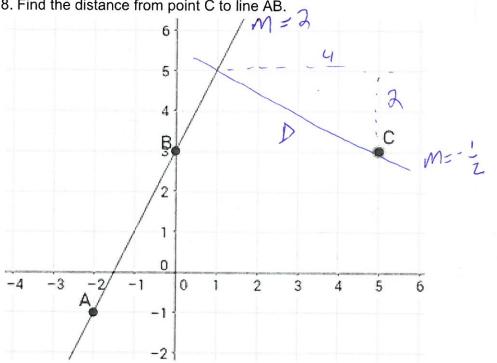
line BD || line GH



F

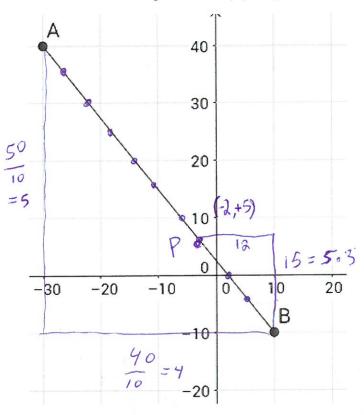


8. Find the distance from point C to line AB.



9. Find the equation of a line perpendicular to $y = (-\frac{2}{3})x + 6$ through the point (-3, 5) in point slope form.

10. Partition line segment AB by giving the coordinates of point P that would make the ratio of AP to PB 7:3.



 $\left(-2,5\right)$

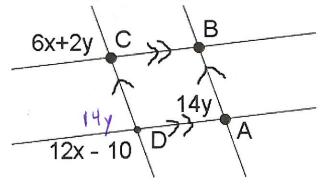
11. Write the equation of the perpendicular bisector of segment AB given A (3, 6) and B(-5, 10) in slope

intercept form.

$$M = \frac{10-6}{-5-3} = \frac{4}{-8} = -\frac{1}{2}$$

Midpoint y-8 = 2(x+1) (-1,8) y-8 = 2x+2y=2x+10

12. Given AB || CD and AD || BC, find x and y.



$$6x + 2y = 14y
6x - 12y = 0
(6x - 12y = 0)
(6x + 7y = 95)
(6x + 7y = 95)
(6x + 7y = 95)
(9x + 7$$