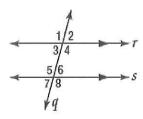
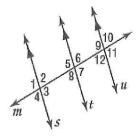
## **Special Angles and Parallel Lines HW**

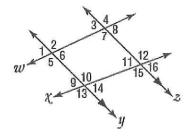
In the figure,  $m \angle 2 = 70$ . Find the measure of each angle.



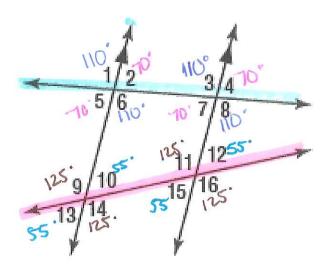
In the figure,  $m \angle 7 = 100$ . Find the measure of each angle.



In the figure,  $m \angle 3 = 75$  and  $m \angle 10 = 115$ . Find the measure of each angle.



In the figure,  $m\angle 3 = 110$  and  $m\angle 12 = 55$ . Find the measure of each angle.



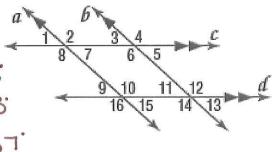
Name:

Hour:

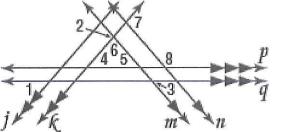
This is out of the book so you don't have to bring it home... You're welcome!

In the figure,  $m \angle 3 = 43$ . Find the measure of each angle.





In the figure,  $m \angle 1 = 50$  and  $m \angle 3 = 60$ . Find the measure of each angle.



Determine whether  $\overrightarrow{MN}$  and  $\overrightarrow{RS}$  are parallel, perpendicular, or neither.

19. M(-2, 2), N(1, -3), R(-2, 1), S(3, 4) 2. M(0, 0), N(2, 4), R(2, 1), S(8, 4)

Perpendicular!

Slope MN: 23

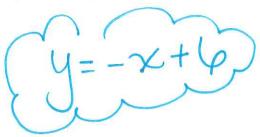
Slope RS: 3/5

20.) Write the equation of a line in slope intercept form which pass through the points A(5.1) and B(8,-2)

1) Find Slope:

$$\frac{-a-1}{8-5} = -1$$
 m=-1

$$\frac{-a-1}{8-5} = -1 \quad m = -1$$
2.) Find b \Rightarrow -a = -1(8) +b

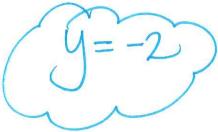


-		
Na	me:	

Hour: \_\_\_\_

21.) Write the equation of a line in slope intercept form which pass through the points A(-5,-2)

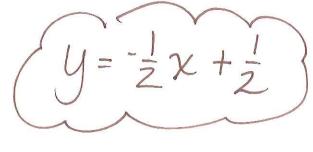
and B(-8,-2)



22.) Write the equation of a line in slope intercept form which is parallel to

 $y = -\frac{1}{2}x - 6$  and passes through the point (-3,2).

$$m_{1/2} = -\frac{1}{2}$$
Find new  $b = a = \frac{1}{2}(-3) + b$ 
 $\frac{1}{2} = b$ 

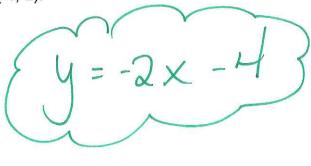


23.) Write the equation of a line in slope intercept form which is parallel to y = -2x - 7 and passes through the point (-1,-2).

m// =-2

-2 = -2(-1) + b

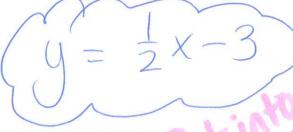
$$-4 = b$$



24.) Write the equation of a line in slope intercept form which is perpendicular to 2x + y = 5 and passes through the point (2,-2).

M = -2  $m_{\perp} = -\frac{1}{2}$ 

Find b  $-2 = \frac{1}{2}(2) + b$  -3 = b



25.) Write the equation of a line in slope intercept form which is perpendicular to  $-\frac{2}{3}x - y = 15$  and passes through the point (0,-15).

Angle Relationships - Day Name: Hour: 26.) Which of the following conditions verify that  $p \parallel q$ ?  $A. \angle 6 \cong \angle 12$ B.  $\angle 2 \cong \angle 4$ C. ∠8 ≅ ∠16  $D. \angle 11 \cong \angle 13$ E.  $\angle 6$  and  $\angle 7$  are supplementary. (F.  $\angle 1 \cong \angle 15$ ) G.  $\angle 7$  and  $\angle 10$  are supplementary. H.  $\angle 4 \cong \angle 16$ From Workbook: 3.5 Skills Practice Given the following information, determine which lines, if any, are parallel. State the postulate or theorem that justifies your answer. 2. ∠9 = ∠11 all b 1.  $\angle 3 \cong \angle 7$ all b = aut int <s = corr. Ls form // lines form // lines 3. ∠2 ≅ ∠16  $4. m \angle 5 + m \angle 12 = 180$ 1/1m Suppl. con. in+ LS form // lines 11/m = actext <s form // lines From Workbook: 6.5 Practice Given the following information, determine which lines, if any, are parallel. State the postulate or theorem that justifies your answer. 1.  $m \angle BCG + m \angle FGC = 180$ 2.  $\angle CBF \cong \angle GFH$ RB//EG 2 corr. LS BI/EG Suppl. Con form // lines int as form 1 lines  $3. \angle EFB \cong \angle FBC$ 4.  $\angle ACD \cong \angle KBF$ FIET = act.

Ext. Ls form I lines

t 2s form/