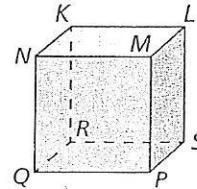


Chapter 10 Review

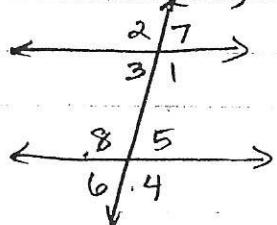
Name _____

1. Looking at the diagram, are the following parallel, perpendicular or skew? (Note: All angles are right angles)

- a) \overleftrightarrow{NM} and \overleftrightarrow{RS}
- b) \overleftrightarrow{NM} and \overleftrightarrow{LS}
- c) \overleftrightarrow{NM} and \overleftrightarrow{QN}
- d) plane NMP and plane RKL



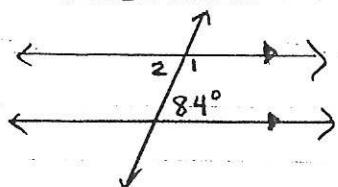
2. Identify whether corresponding, alternate interior, alternate exterior, consecutive interior or vertical angles.



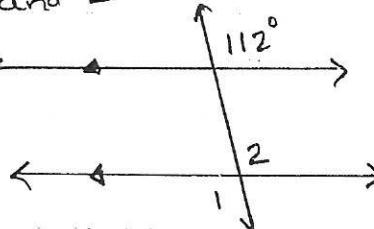
- a) $\angle 4$ and $\angle 2$
- b) $\angle 4$ and $\angle 1$
- c) $\angle 8$ and $\angle 1$
- d) $\angle 8$ and $\angle 4$
- e) $\angle 8$ and $\angle 3$

Find the measures of angles 1 and 2

3.

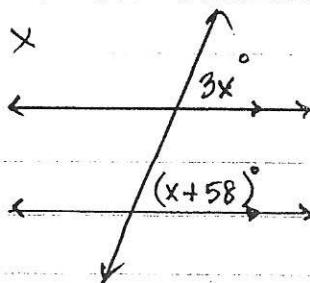


4.

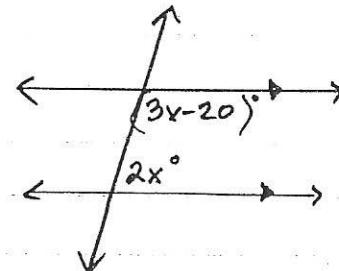


Find x

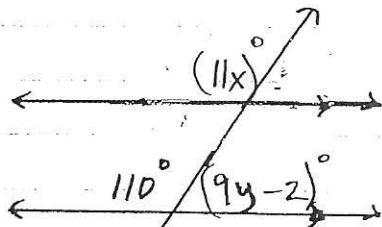
5.



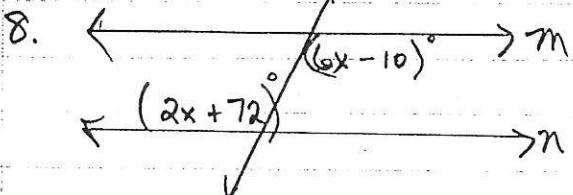
6.



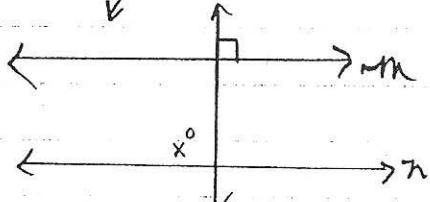
7. Find the value of x and y .



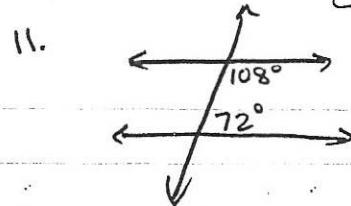
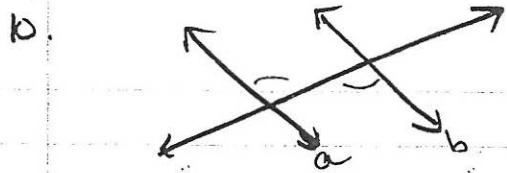
Find the value of x that makes $m \parallel n$



9.



Is there enough information to prove that the lines are parallel? If so, state the theorem you would use.

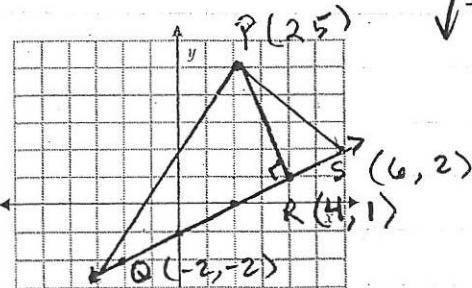


Give the reason for statement 2

12. 1. $a \parallel b$ 1. Given
2. $\angle 1 \cong \angle 2$ 2. ?

13. 1. $\angle 3 \cong \angle 4$ 1. Given
2. $a \parallel b$ 2. ?

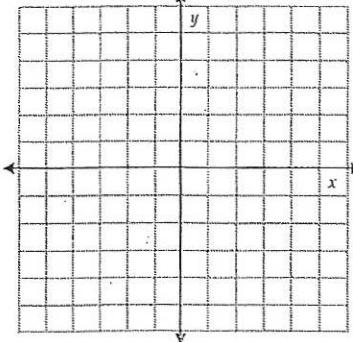
14. Find the distance from P to QS



15. Graph the linear equations. Are the lines \parallel , \perp or coincident?

$$y = 3x + 1$$

$$2x + 4y = 18$$



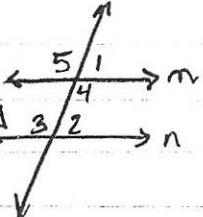
16. Write the equation of the line passing through (10, 3)

a) parallel to $y = 5x + 3$

b) perpendicular to $y = 5x + 3$

17. Solve $3(7x - 4) + 2 = 32$

18. Write a 2 column proof: Given: $\angle 5$ and $\angle 2$ are supplementary
Prove: $m \parallel n$



19. Construct

a) line parallel to m through P

• P

b) line \perp to l through P

• P

c) \perp bisector of \overline{AB}

\overline{AB}

