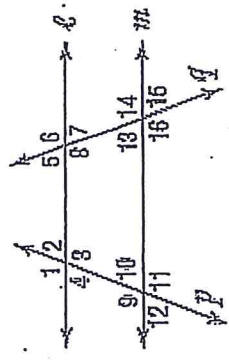


For #5-8, name the transversal that forms each pair of angles then identify the relationship of the angle pair.

Same instructions as 9-20

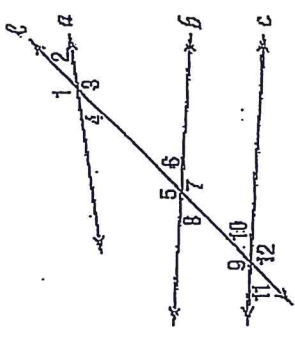
PW#4

- 5. $\angle 3$ and $\angle 10$ Transversal: _____
- Relationship: _____
- 6. $\angle 2$ and $\angle 12$ Transversal: _____
- Relationship: _____
- 7. $\angle 8$ and $\angle 14$ Transversal: _____
- Relationship: _____
- 8. $\angle 9$ and $\angle 16$ Transversal: _____
- Relationship: _____

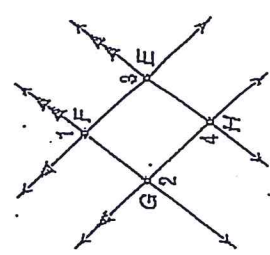


For #9-20, refer to the image at the right. Identify each pair of angles as alternate interior, alternate exterior, corresponding, consecutive interior, vertical, linear pair or no relationship.

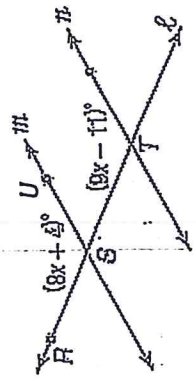
- 9. $\angle 1$ and $\angle 7$
- 10. $\angle 2$ and $\angle 10$
- 11. $\angle 8$ and $\angle 9$
- 12. $\angle 1$ and $\angle 12$
- 13. $\angle 3$ and $\angle 12$
- 14. $\angle 4$ and $\angle 10$
- 15. $\angle 5$ and $\angle 7$
- 16. $\angle 9$ and $\angle 11$



- 17. $\angle 1$ and $\angle 8$
- 18. $\angle 2$ and $\angle 7$
- 19. $\angle 3$ and $\angle 6$
- 20. $\angle 4$ and $\angle 5$



- 32. Find x and $m\angle RSU$ so that $m \parallel n$. Show all work.

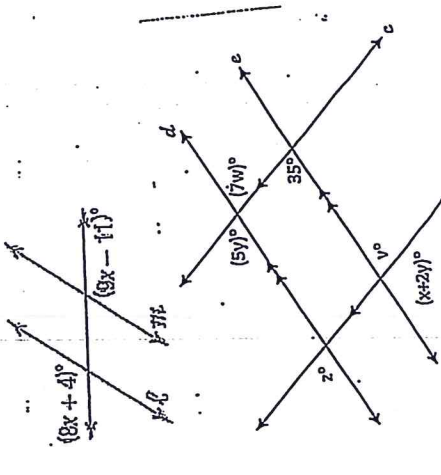
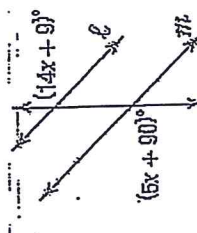


For #33-36, given the following information, determine which lines, if any, are parallel. State the Theorem that justifies your answer.

- 33. $\angle 16 \cong \angle 3$ Parallel Lines: _____ & _____
Theorem: _____
- 34. $\angle 4 \cong \angle 13$ Parallel Lines: _____ & _____
Theorem: _____
- 35. $m\angle 14 + m\angle 10 = 180$ Parallel Lines: _____ & _____
Theorem: _____
- 36. $\angle 1 \cong \angle 7$ Parallel Lines: _____ & _____
Theorem: _____



- 37. $x =$ _____
Angle Relationship: _____
- 38. $x =$ _____
Angle Relationship: _____



40. In the drawing, $d \parallel e$ and $a \parallel c$. Find the values for v, w, x, y and z .

- 30. If $m\angle 2 = 4x + 7$ and $m\angle 3 = 5x - 13$, find $m\angle 3$. Show all work.

$\angle 3 =$ _____