In the figure, $m \angle 2 = 115$ and $m \angle 12 = 85$. Find the measure of each angle.

1. ∠10

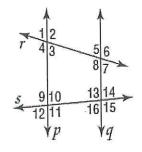
2. ∠8

3. ∠9

4. ∠5

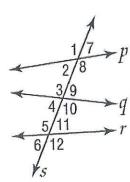
5. ∠11

6. ∠13



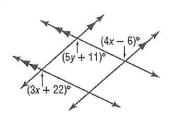
In the figure, determine whether the angles are corresponding, alternate interior, alternate exterior, consecutive interior angles, or a linear pair.

- 7. $\angle 3$ and $\angle 12$
- 8. $\angle 6$ and $\angle 11$
- 9. ∠7 and ∠9 _____
- 10. $\angle 2$ and $\angle 3$
- 11. ∠5 and ∠10

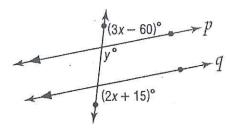


Find x and y in each figure.

12.

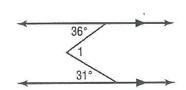


13.

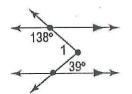


Find $m \angle 1$ in each figure.

14.

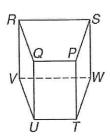


15.



Refer to the figure at the right.

- 16. Identify 2 parallel planes
- 17. Name a line skew to \overline{RV}
- 18. How many lines are parallel to \overline{RV} ?
- 19. Name a plane that intersects plane RQP.



Given the following information, determine which lines, if any, are parallel. State which angle relationship proves it.

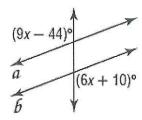
20	/1 ≃	12

Parallel

21.
$$\angle DAB \cong \angle EBC$$

22. $m\angle ADE + m\angle BED = 180$

23. Find x so that a \parallel b.



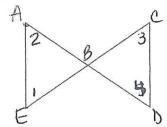
Determine whether \overrightarrow{QV} and \overrightarrow{RM} are parallel, perpendicular, or neither. 24. Q(-3, -8), V(5, 12), R(-2.5, 1), M(-5, 2)

- 26. Write an equation in slope-intercept form for a line with m = 4 and a y-intercept of -3.
- 27. Write an equation in point-slope form for a line with a slope of 2 and contains the point (3, 1)
- 28. Write an equation of a line in slope-intercept form containing (-3, 13) and (6, -5).

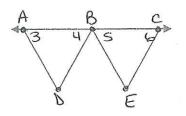
Chapter 3 Test Review: Proofs

For each of the following complete the 2-column proof.

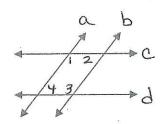
1) Given: < 1 \cong < 2 < 1 \cong < 4 Prove $\overline{AE} \parallel \overline{CD}$



2) Given: $\overline{AD} \parallel \overline{BE}$ $< 3 \cong < 4$ $< 5 \cong < 6$ Prove: $\overline{BD} \parallel \overline{CE}$



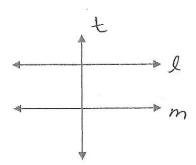
3) Given: $d \parallel c$ $< 1 \cong < 3$ Prove: $a \parallel b$



4) Given: $l \perp t$

 $m \perp t$

Prove: $l \parallel m$



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6				