

1. Describe the difference between skew lines and parallel lines.

2. Give a counter-example for the following statement: All months have 31 days.

Fill in the blank.

3. _____ lines meet to form right angles.

4. A _____ is a third line that intersects two or more given lines.

5. Lines that do not intersect and are coplanar are called _____ lines.

Answer the following.

6. a) What does the symbol “ \perp ” mean?

- b) What does the symbol “ $//$ ” mean?

7-14: Name each pair of angles. Choose from linear pair, corresponding, vertical, alternate interior, alternate exterior, same-side interior, or same-side exterior. If no relationship, write none.

7. $\angle a$ and $\angle g$

8. $\angle a$ and $\angle h$

9. $\angle c$ and $\angle b$

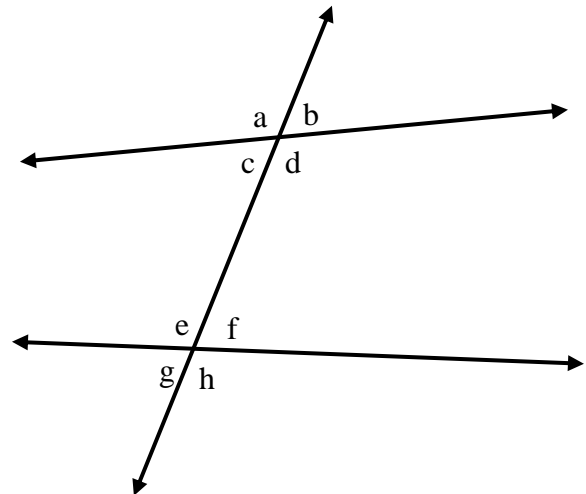
10. $\angle d$ and $\angle g$

11. $\angle c$ and $\angle e$

12. $\angle a$ and $\angle b$

13. $\angle d$ and $\angle e$

14. $\angle b$ and $\angle f$



In problems 15-16 solve system by method of choice (substitution or elimination). Write the solutions as an ordered pair.

15. $x - 2y = 0$
 $3x - 5y = 8$

16. $2x - 3y = 8$
 $x = y + 3$

17. **Factor** $3x^2 + 7x + 4$

18. **Solve** $2x^2 + 5x = 3$

19. Rewrite the biconditional statement as two conditional statements.
I will go to the dance if and only if you buy me the blue dress.

20. Write the inverse and converse of the following statement.
If a triangle has three congruent sides, then the triangle is equilateral.

Inverse: _____

Converse: _____

21-23. Use the diagram to find the measure of each angle. Given $a \parallel b$.

21. $m\angle c$
_____ (2)

22. $m\angle d$
_____ (2)

23. $m\angle e$
_____ (2)

