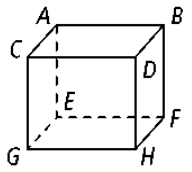
Name_____ Geometry Lessons 3.1-3.2 Extra Practice

In Exercises 6–11, describe each statement as *true* or *false*.

_____1. $\overleftrightarrow{AE}$ and $\overleftrightarrow{EF}$ are skew lines. _____2. plane *DBF* ∥ plane *ABD* _____3. $\overleftrightarrow{GH} \parallel \overleftrightarrow{EF}$

_____4. $\overleftrightarrow{DB} \parallel \overleftrightarrow{AE}$ _____5. plane *EFH* ∥ plane *ABD* _____6. $\overleftrightarrow{FH}$ and $\overleftrightarrow{CD}$ are skew lines.



Identify all pairs of each type of angle in the diagram below right.

7. The interior angles are _____.

8. The exterior angles are _____.

9. ∠4 corresponds to ∠____.

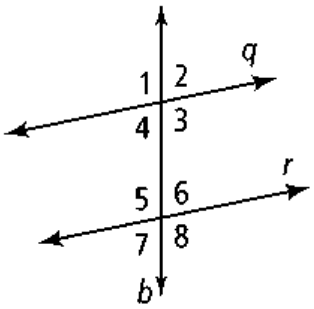
10. ∠4 is consecutive interior to ∠____.

11. ∠4 is alternate interior to ∠____.

12. ∠2 is alternate exterior to ∠____.

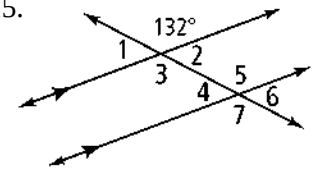
13. ∠4 is linear pair with ∠____ and ∠____.

14. ∠4 is vertical to ∠____.



Identify all the numbered angles that are congruent to the given angle. Justify your answers.

15.

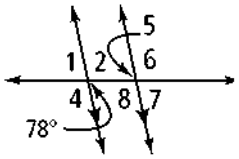


∠_____ because _____

∠_____ because _____

∠_____ because _____

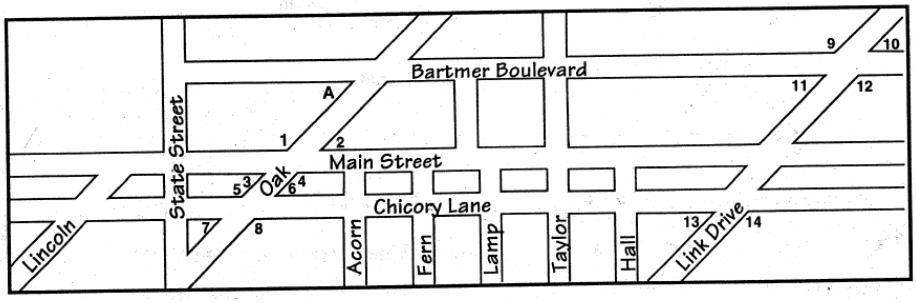
16.



∠_____ because _____

∠_____ because _____

∠_____ because _____



The streets are a series of parallel lines and transversals. Use the map to answer each request.

17. Name five streets that are transversals of Main Street and Chicory Lane._____

18. Find two pairs of alternate interior angles at the intersections of Oak, Main Street and Chicory Lane._____

19. Find a pair of consecutive interior angles at the intersections of Oak, Main Street and Chicory Lane._____

20. Find a pair of alternate exterior angles at the intersections of Link Drive, Chicory Lane and Bartmer Boulevard._____

21. If the measure of ∠2 is 32°, what is the measure of ∠*A*. Justify your answer._____