Name _____ Hour _____ Lines & Angles

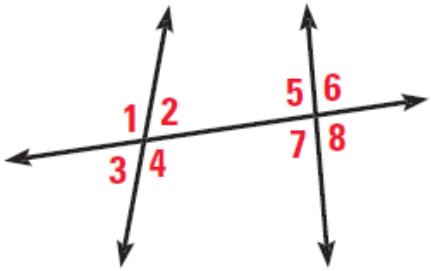
Think of each segment in the diagram as part of a line. Complete the statement with *parallel*, *perpendicular*, or *skew*.

1. $\overleftrightarrow{DC}$ and $\overleftrightarrow{GC}$ are _?_.
2. $\overleftrightarrow{BF}$ and $\overleftrightarrow{EH}$ are _?_.
3. $\overleftrightarrow{AD}$ and $\overleftrightarrow{BC}$ are _?_.
4. Plane *ABE* and plane *DHG* are _?_.
5. Plane *BCG* and plane *FEH* are _?_.

Think of each segment in the diagram as part of a line. Which line appears to fit the description?

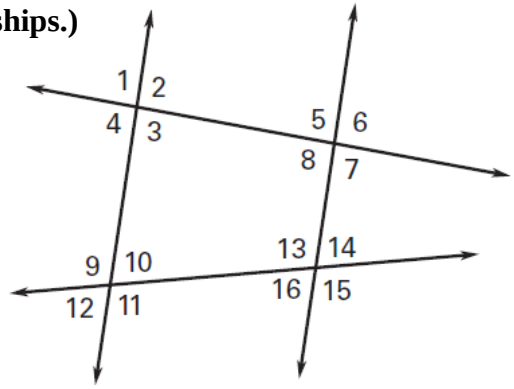
6. Line parallel to $\overleftrightarrow{WQ}$ and containing point *S*.
7. Line perpendicular to $\overleftrightarrow{RS}$ and containing point *Z*.
8. Line skew to $\overleftrightarrow{XY}$ and containing point *T*.
9. Line parallel to $\overleftrightarrow{ST}$ and containing point *W*.
10. Line perpendicular to $\overleftrightarrow{WZ}$ and containing point *X*.
11. Line skew to $\overleftrightarrow{TX}$ and containing point *Q*.

Classify the angle pair as *linear pair*, *vertical angles*, *corresponding angles*, *alternate exterior angles*, *alternate interior angles*, *consecutive exterior angles*, *consecutive interior angles*, or *none of these*.



12. $\angle 2$ and $\angle 7$
13. $\angle 3$ and $\angle 4$
14. $\angle 1$ and $\angle 6$
15. $\angle 4$ and $\angle 7$
16. $\angle 6$ and $\angle 3$
17. $\angle 5$ and $\angle 8$
18. $\angle 5$ and $\angle 1$
19. $\angle 8$ and $\angle 2$

Classify the angle pair. (See above for the list of angle pair relationships.)



20. $\angle 5$ and $\angle 16$
21. $\angle 3$ and $\angle 11$
22. $\angle 4$ and $\angle 10$
23. $\angle 7$ and $\angle 16$
24. $\angle 8$ and $\angle 13$
25. $\angle 15$ and $\angle 13$
26. $\angle 9$ and $\angle 12$
27. $\angle 2$ and $\angle 12$