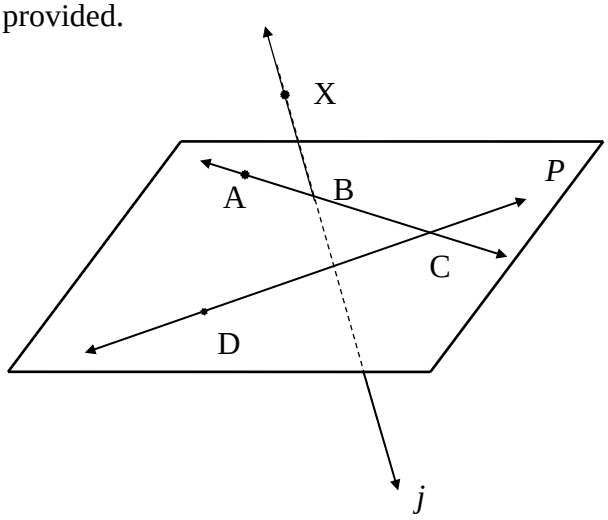
NAME _____ DATE _____ Pd _____ H GEO

1.1 – 1.4 Quiz Review

TRUE or FALSE: write out the entire word in the blank provided.



_____ 1. Plane *P* contains $\overleftrightarrow{DC}$.

_____ 2. Plane *P* contains X.

_____ 3. Another name for $\overleftrightarrow{AC}$ is $\overleftrightarrow{BC}$.

_____ 4. A, B, C and D are coplanar.

_____ 5. D and B are collinear.

_____6. A, B, and X are collinear.

_____ 7. X, A, B, and C are coplanar.

_____ 8. Every plane which contains A and B must contain C.

_____ 9. Line j intersects $\overleftrightarrow{DC}$.

_____ 10. The plane ABX intersects plane *P* at $\overleftrightarrow{AC}$.

_____ 11. X is between A and C.

_____ 12. D, B, and X are coplanar.

_____ 13. $\overleftrightarrow{AB}$ and X are coplanar.

_____ 14. Space is the set of all points.

_____ 15. If three points are collinear, then they lie in exactly one plane.

_____ 16. If three points are collinear, then they are coplanar.

_____ 17. If two planes intersect, then their intersection is a line.

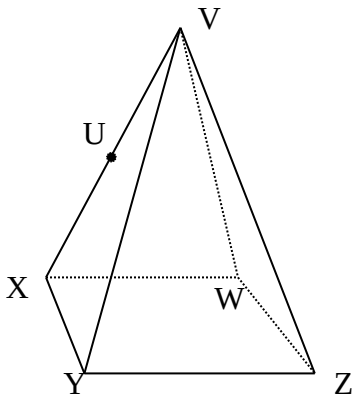
18. Name three collinear points. ____, ____ & ____

19. Name four coplanar points. ____, ____, ____ & ____

20. Name four non-coplanar points. ____, ____, ____ & ____

21. Name two collinear points that are not on a plane shown in the diagram. ____ & ____

22. Name three coplanar points that are not on a plane shown in the diagram. ____, ____ & ____



23. PS = 3x + 2, SQ = 4x - 5, PQ = 39. Is S the midpoint of $\overline{PQ}$? Justify your answer.

24. Suppose B is between A and C. If BC = 73.2 and AB = 39.9, what is AC?

25. State the "betweeness" relationship if QP = 42.7, QR = 79.9, and RP = 37.2.

26. A, B, and C are collinear points with coordinates a, b, c respectively.

    a. If b = -10, c = 4 and BA = 287, find BC and CA, give 2 possible answers.

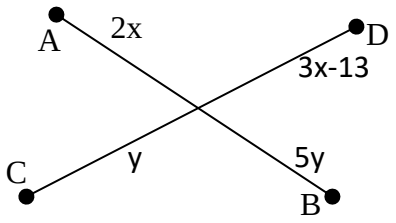
    b. C is between A and B. AC = BC, CB = 10, and c = 14. Give 2 possible coordinates for A.

27. Suppose Q is the midpoint of PR. PQ = 3x - 5 and QR = x + 17. Find the value of x. What length should PS have if R is to be the midpoint of $\overline{QS}$?

28. AB = 3x - 4, AC = 40 and AB = BC Find x.

29. M is the midpoint of $\overline{AB}$. If $AM = 2x^2 + 16$, $AB = 6x^2$, find AB. (do not forget the ±)

30. Find the value of x and y that makes AB and CD bisect each other.



31. If A is (-3, 5) and M is (7, -12) then find B if M is the midpoint of B.

32. Find the perimeter of a triangle with coordinates (5, 6) (8, -4) and (12, 10) (leave your answer exact and simplified).

33. Explain in words the difference between distance formulas on a number line and a coordinate plane.

34. Find the area for the triangle given in number 32 above.