WS 1.1 - Points, Lines, and Planes

Refer to the figure below for Exercises 1–12.

Are the points collinear?

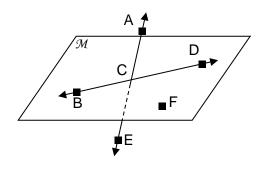
- 1. A, D, E
- 2. B, C, D
- 3. B, C, F

- 4. A, E, C
- 5. F, B, D

Are the points coplanar?

- 6. B, C, D, F
- 7. A, C, D, F
- 8. B, D, E, F

9. A, C, E, F



- 10. Name plane M in another way.
- 11. What is the intersection of plane M and \overrightarrow{AE} ?
- 12. What is the intersection of \overrightarrow{AE} and \overrightarrow{BD} ?

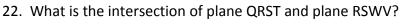
Refer to the figure below for Exercises 13–26.

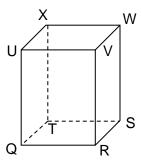
Are the following coplanar?

- 13. Q, V, R
- 14. X, V, R 15. U, V, W, S

- 16. W, V, Q, T 17. point X, \overrightarrow{QT} 18. \overrightarrow{RS} , point X

- 19. \overrightarrow{XV} , \overrightarrow{UV} 20. \overrightarrow{UX} , \overrightarrow{VS} 21. \overrightarrow{UV} , \overrightarrow{VS}



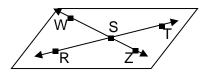


- 23. What is the intersection of \overrightarrow{W} and plane QTXU?
- 24. Name three lines that intersect at point S.
- 25. Name two planes that intersect at \overrightarrow{TS} .
- 26. Name another point that is in the same plane as points Q, T, and W.
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27. Which of the following is not an acceptable name for the plane shown?

Λ	nlana RS7	_	nlana RSM/7
Α.	plane RSZ	C.	plane RSWZ

B. plane RST D. plane WST



Complete with always, sometimes, or never to make a true statement.

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ററ	Intersecting lines are	conloner
<i>/</i> ^ _	intersecting lines are	coplanar

- 29. Two planes ______ intersect in exactly one point.
- 30. Three points are _____ coplanar.
- 31. A line and a point not on the line are coplanar.
- 32. Four points are _____ coplanar.
- 33. Two lines _____ meet in more than one point.

34. Points F(2, 4) and G(4, 8) lie on the graph of y = 2x. Determine whether H(-3, -6) is collinear with F(-3, -6) and G(-3, -6) is collinear with F(-3, -6) is collinear w

