

Chapter 10 – Reasoning and Proof

10-1 Postulates and paragraph proofs

In the figure at the right, $\overleftrightarrow{CD}$ and $\overleftrightarrow{CE}$ lie in plane P and $\overleftrightarrow{DH}$ and $\overleftrightarrow{DJ}$ lie in plane Q . State the postulate that can be used to show each statement is true.

34. Points C and B are collinear.

35. $\overleftrightarrow{EG}$ contains points E , F , and G .

36. $\overleftrightarrow{DA}$ lies in plane P .

37. Points D and F are collinear.

38. Points C , D , and B are coplanar.

39. Plane Q contains the points C , H , D , and J .

40. $\overleftrightarrow{AC}$ and $\overleftrightarrow{FG}$ intersect at point E .

41. Plane P and plane Q intersect at $\overleftrightarrow{CD}$.

