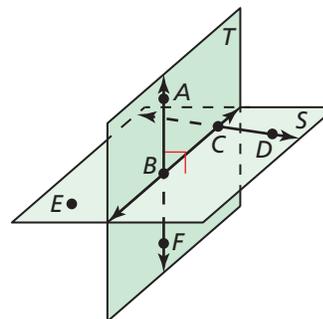


2 Cumulative Assessment

- Use the diagram to write an example of each postulate.
 - Two Point Postulate (Postulate 2.1)** Through any two points, there exists exactly one line.
 - Line Intersection Postulate (Postulate 2.3)** If two lines intersect, then their intersection is exactly one point.
 - Three Point Postulate (Postulate 2.4)** Through any three noncollinear points, there exists exactly one plane.
 - Plane-Line Postulate (Postulate 2.6)** If two points lie in a plane, then the line containing them lies in the plane.
 - Plane Intersection Postulate (Postulate 2.7)** If two planes intersect, then their intersection is a line.

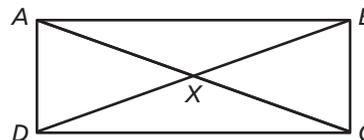


- Enter the reasons in the correct positions to complete the two-column proof.

Given $\overline{AX} \cong \overline{DX}, \overline{XB} \cong \overline{XC}$

Prove $\overline{AC} \cong \overline{BD}$

STATEMENTS	REASONS
1. $\overline{AX} \cong \overline{DX}$	1. Given
2. $AX = DX$	2. _____
3. $\overline{XB} \cong \overline{XC}$	3. Given
4. $XB = XC$	4. _____
5. $AX + XC = AC$	5. _____
6. $DX + XB = DB$	6. _____
7. $AC = DX + XB$	7. _____
8. $AC = BD$	8. _____
9. $\overline{AC} \cong \overline{BD}$	9. _____



Segment Addition Postulate
(Postulate 1.2)

Definition of congruent segments

Substitution Property of Equality

- Classify each related conditional statement, based on the conditional statement "If I study, then I will pass the final exam."
 - I will pass the final exam if and only if I study.
 - If I do not study, then I will not pass the final exam.
 - If I pass the final exam, then I studied.
 - If I do not pass the final exam, then I did not study.
- List all segment bisectors given $x = 3$.

