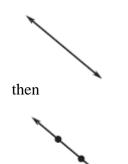
## **Assignment 11 Lesson 2.4**

Which postulate can be represented by the given if-then statement?

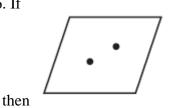
- 1. If any two points are considered, then there is exactly one line through the points.
- **2.** If any three noncollinear points are considered, then there is exactly one plane through all three points.
- 3. If a plane is considered, then the plane contains at least three noncollinear points.
- **4.** If a line is considered, then the line contains at least two points.

State the postulate illustrated by the diagram.

**5.** If



6. If

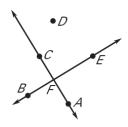


Use the diagram to write an example of the postulate.



- **7.** Postulate 5
- **8.** Postulate 6

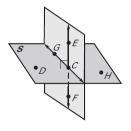
Can the statement be assumed to be true from the diagram?



7. B, C, and D are collinear

11.  $\angle CFE$  and  $\angle AFE$  are a linear pair.

## Can the statement be assumed to be true from the diagram? Explain.



**12.** 
$$\overrightarrow{EF}$$
  $\perp$  plane  $S$ 

13. 
$$\overrightarrow{EF} \perp \overrightarrow{CG}$$

13. 
$$\overrightarrow{EF} \perp \overrightarrow{CG}$$
  
14.  $D$ ,  $C$ , and  $H$  are collinear.

**16.** 
$$\overrightarrow{EF}$$
 intersects plane S at point C

**17.** 
$$\overrightarrow{EF} \perp \overrightarrow{DH}$$

**18.** 
$$\overrightarrow{EF} \perp \overrightarrow{CH}$$

**19.** 
$$\overrightarrow{CG} \perp \overrightarrow{CD}$$