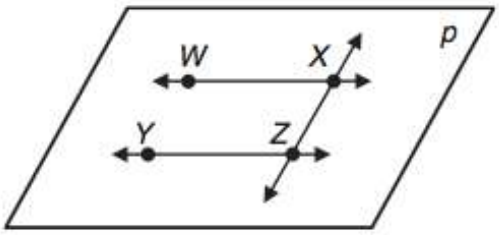
Integrated Math 2
Geometry Definitions
Mrs. Schempp

Name _____
Period _____ Date _____

1. Identify each of the following in the figure shown.



a. How many points are there?

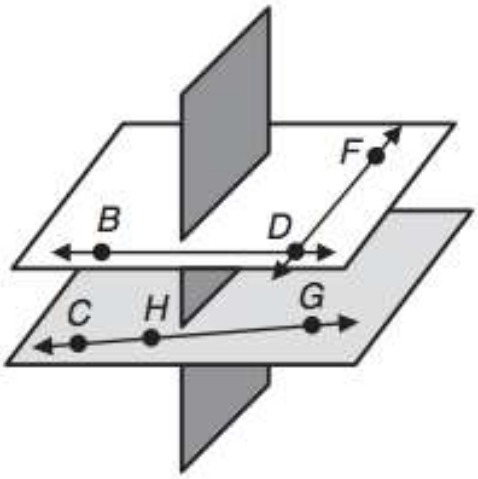
b. How many lines are there?

c. What is the name of the plane?

d. Classify each angle as acute, obtuse, straight or right.
∠WXZ ∠YZX

e. What is another name for ∠WXZ?

2. Identify each of the following in the figure to the right.



a. Are point B and point F collinear?
Are point B and point D collinear?

b. Which lines are coplanar?

c. Which lines are skew?

d. Name all rays in $\overleftrightarrow{CG}$.

e. Name all line segments in $\overleftrightarrow{CG}$.

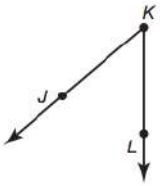
3. Name each geometric figure properly. Which figures have more than one name with the given labels?

a.

b.

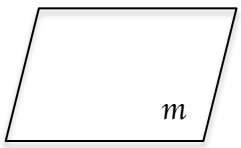
c.

d.

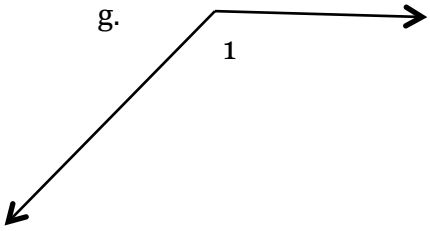


e. ● H

f.



g.



4. Describe the intersections of planes p, w, and z in each figure.

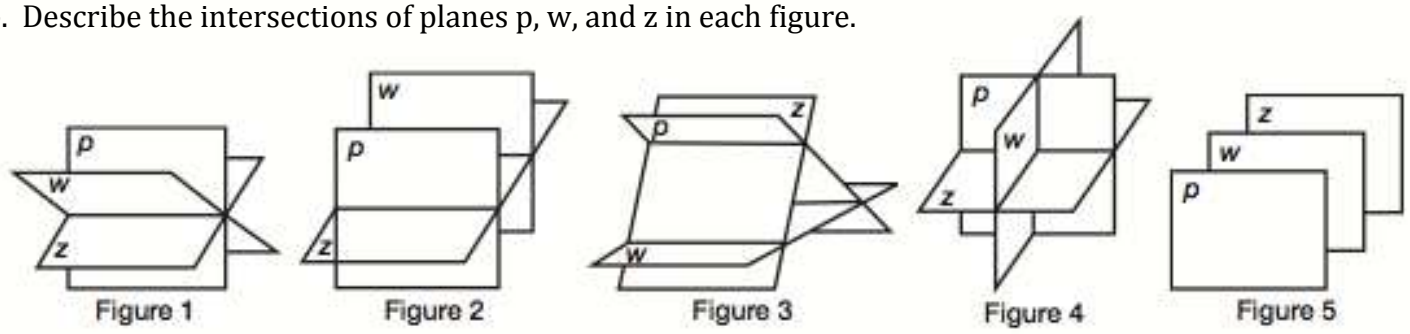


Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

5. Which line is longer, line *AB* or line *CD*?

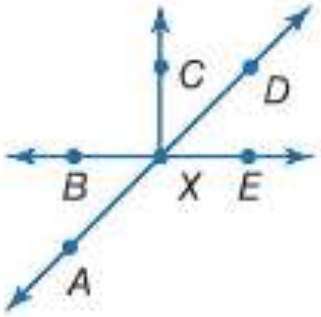
6. Which point is larger, point *A* or point *B*?

7-11. Refer to the figure to the right to answer the following questions.

7. Use the Segment Addition Postulate to find the missing value: $\overline{AX} + \overline{XD} = \overline{AD}$
   a. Given: AX = 15 and AD = 32, Find: XD b. AX = 12 and XD = 5, Find: AD

8. Use the Angle Addition Postulate to find the missing value: ∠AXB + ∠BXC = ∠AXC
   a. Given: m∠AXB = 42° and m∠BXC = 90° find m∠AXC

9a. Identify a pair of vertical angles that appear to be acute.
   b. Identify a pair of adjacent angles that appear to be complimentary.
   c. Identify a linear pair.
   d. Identify an obtuse angle.
   e. Identify a straight angle.
   f. Identify a right angle.
   g. Name the angle that is vertical to ∠EXA.



10. Explain why you cannot name an angle "X" in the figure.

11. How many angles are there in the figure?

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