GEOMETRY: UNIT 2

VOCABULARY

WARM-UP

Draw and label a diagram for each figure.

3. $c \perp d$

4. A line where points x, y and z are coplanar.

GEOMETRIC VOCABULARY

- <u>Content Objective:</u> Students will be able to identify, sketch, and label diagrams involving points, lines, planes, and angles.
- Language Objective: Students will be able to use symbolic notation to label, in writing, diagrams involving points, lines, planes, and angles.

BASIC TERMS

word	definition	drawing/example	
point	dimension = 0 represented by a dot	● K point K	
line	dimension = 1 represented by a straight line with two arrows goes on forever both directions	line I	
plane	dimension = 2 flat surface that extends in all directions	M plane M	

BASIC TERMS CONTINUED

word	definition	drawing/example
collinear	a set of points that all lie on one line.	A B C D Points A, B, and C are collinear. Points A, B, and D are not collinear, also known as noncollinear.
coplanar	a set of points that all lie in one plane.	A D • B C
noncoplanar	a set of points that do not lie in one plane.	A B C

BASIC TERMS CONTINUED

word	definition	drawing/example	
segment	a part of a line that has two endpoints	segment JK JK KJ	
ray	part of a line that has one endpoint goes on forever in one direction	R P ray RP RP	
angle	two different rays connected at the same endpoint called vertex.	< A	

BASIC TERMS CONTINUED

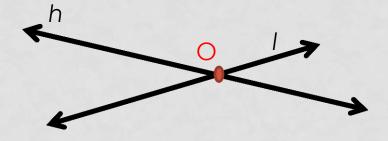
word	definition	drawing/example
parallel lines	2 lines that do not intersect and are coplanar	<u>a</u> <u>b</u>
perpendicular lines	2 lines that intersect to form right angles	90°

INTERSECTING LINES

 The intersection of two figures is the set of points that are in both figures.



A is in I, or A is on I.I contains A.I passes through A.

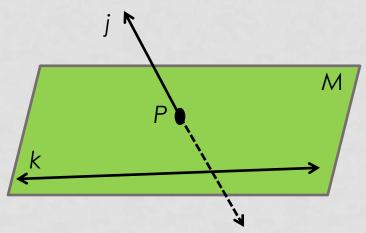


I and h intersect in O.
I and h intersect at O.
O is the intersection of I and h.

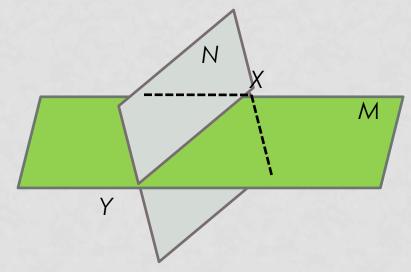
INTERSECTING PLANES

Similar Intersections can occur between a lines and a plane, or

between two planes



k and P are in M.
M contains k and P.
j intersects M at P.
P is the intersection of j and M.



• M and N intersect in \overrightarrow{XY} . \overrightarrow{XY} is the intersection of M and N. \overrightarrow{XY} is in M and N.

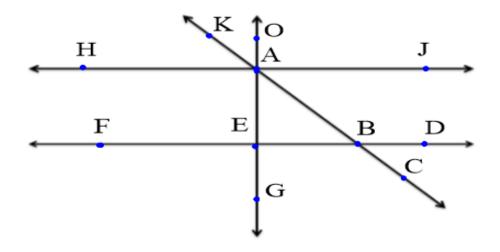








USING THE DIAGRAM GIVEN, GIVE THE FOLLOWING



5. Parallel Lines.

6. Perpendicular lines.

7. Four collinear points.

8. Three angles with vertex A.

9. Three angles using the point B.