

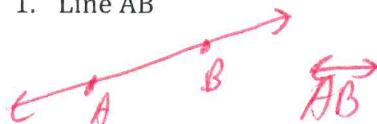
Name: Answer Key

Date: _____

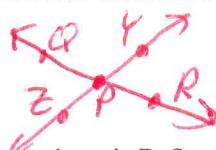
Points, Lines Planes Review

Draw the following figures and label each diagram.

1. Line AB



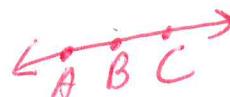
6. Line QR intersect Line YZ at point P



2. Point K



7. Collinear points A, B, C



3. Segment CD

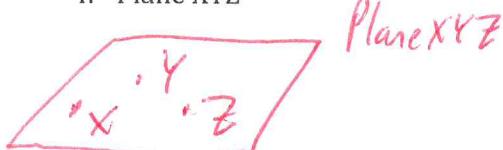


8. Coplanar points L, M, N

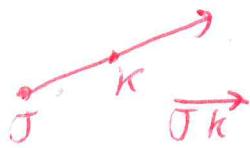
Plane LMN



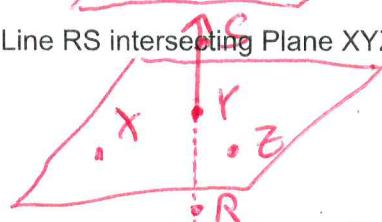
4. Plane XYZ



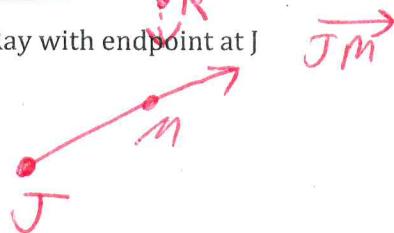
5. Ray JK



9. Line RS intersecting Plane XYZ



10. Ray with endpoint at J



11. Explain the difference between a point a line and a plane.

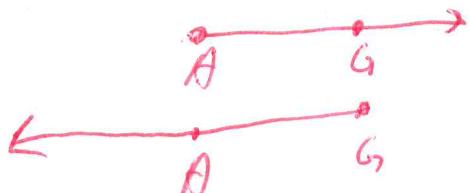
Point - is a location with no size. Plane - 2-D flat surface that extends forever in all directions.
Line is an infinite string of points that goes on forever in two directions.

12. Explain the difference between a line a segment and a ray.

A line segment has two endpoints and consists of the two endpoints and all the points in between.

A ray has one endpoint and consists of that endpoint and all the points in one direction.

13. Explain why the symbols \overrightarrow{AG} and \overrightarrow{GA} do not represent the same geometric figure.



They do not contain the same set of points. They go to infinity in opposite directions.

Using the diagram name each of the following:

14. Name three segments

$\overline{ON}, \overline{NL}, \overline{OL}, \overline{ML}, \overline{JL}, \overline{JM}, \overline{LR}$

15. Name four rays

$\overrightarrow{ON}, \overrightarrow{OL}, \overrightarrow{NO}, \overrightarrow{LK}, \overrightarrow{KL}, \overrightarrow{JM}, \overrightarrow{MJ}$

16. Name two lines

$\overleftrightarrow{KL}, \overleftrightarrow{JM}, \overleftrightarrow{NO}$

$\overleftrightarrow{LM}, \overleftrightarrow{LJ}, \overleftrightarrow{LO}$

17. Name three collinear points.

Points O, N, L or Points J, L, M

18. Name three non-collinear points.

Points N, L, M (many more)

19. Name a point of intersection

Point L

20. Name a pair of opposite rays.

\overrightarrow{LJ} and \overrightarrow{LM}

21. Define the following:

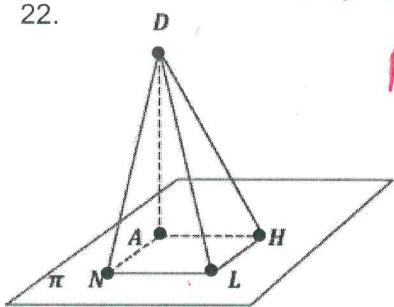
- a. Collinear

Points on the same line

- b. Non-Coplanar

Points that do not all lie on the same line.

- 22.



Name three coplanar points.

Points N, L, H (Many more)

Name a point that is coplanar with

L and H Point N

Name the intersection of plane π and

plane NAD . \overleftrightarrow{NA}

Name the intersection of plane NAH and

plane DHL . \overleftrightarrow{HL}

24. Draw four points, G, H, R and P in plane π .

Points H, R and P are collinear. Then sketch

\overleftrightarrow{GH} and \overleftrightarrow{PR} .

