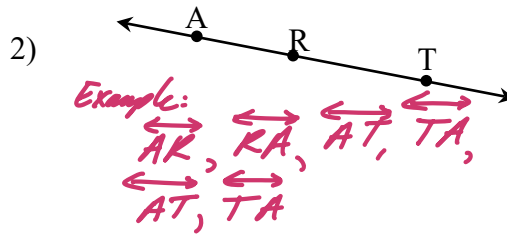
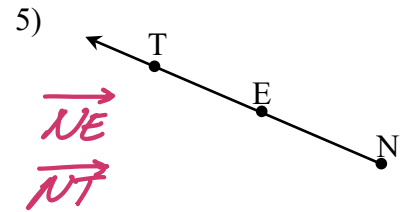
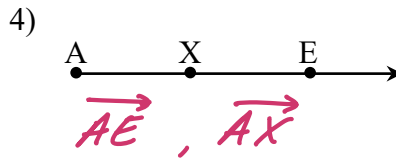
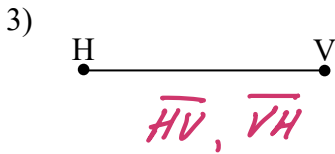


1.1 – Points, Lines, and Planes – Part 1

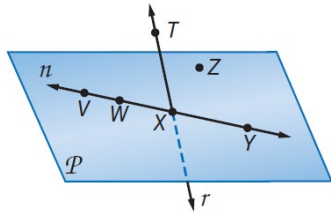
Name each line two different ways.



Name each line segment or ray two different ways.



Use the figure for #6-11 to name each of the following.



8) One name for a plane containing Point Z.
Example: Plane VZY

10) Alternate names for \overleftrightarrow{YX}
 $\overleftrightarrow{YW}, \overleftrightarrow{YV}$

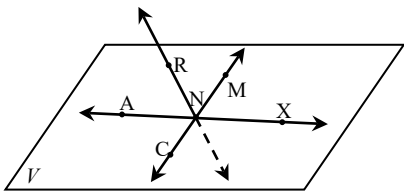
6) As many lines as possible containing point W.
 $\overleftrightarrow{VW}, \overleftrightarrow{WV}, \overleftrightarrow{WX}, \overleftrightarrow{XW}, \overleftrightarrow{XY}, \overleftrightarrow{YX}$
 $\overleftrightarrow{VX}, \overleftrightarrow{XV}, \overleftrightarrow{WY}, \overleftrightarrow{YW}, \overleftrightarrow{VY}, \overleftrightarrow{YV}$

7) Two alternate names for Plane P.
Example: Plane XXZ
Plane VWX

9) As many lines as possible containing point T.
 $\overleftrightarrow{TX}, \overleftrightarrow{XT}$

11) The intersection between Line r and Plane P.
Point X

Use the figure for #12-17 to name each of the following.



14) What are two other ways to name plane V?
Example: Plane ANM
Plane CNX

16) Name the pair of opposite rays with endpoint N.
Example: \overrightarrow{NX} and \overrightarrow{NA}

12) Name two segments shown in the figure.
Example: $\overline{AN}, \overline{NX}$

13) What is the intersection of \overline{CM} and \overline{RN} ?
Point N

15) Name two rays shown in the figure.
Example: $\overrightarrow{NR}, \overrightarrow{NX}$

17) How many distinct lines are shown in the drawing?

3

For Exercises 14–19, without given a diagram of a figure, determine whether each statement is *always* (A), *sometimes* (S), or *never* (N) true.

18) \overrightarrow{GH} and \overrightarrow{HG} are the same ray. N

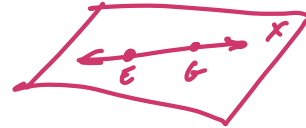


19) \overrightarrow{JI} and \overrightarrow{JL} are opposite rays. S



20) A plane contains **only three** points. N

21) If \overrightarrow{EG} lies in plane X, point G lies in plane X. A



22) Reasoning: Is it possible for one ray to be shorter in length than another? Explain.

No. Since all rays go infinitely in one direction.
