

Lesson 1.1 Points and Lines

A **point** has no dimensions but defines a location in space.

Point R is shown at right.



A **line** extends infinitely in both directions.

Line ST is the same as line TS and can also be named \overleftrightarrow{ST} or \overleftrightarrow{TS} .



A **line segment** is the part of the line between two **end points**.



Segment UV is the same as segment VU and can also be named \overline{UV} or \overline{VU} .

Name the following figures. Number 1 is given.

- | | | | | | |
|----|--|---|----------------------------|---|--|
| 1. | | a | line AB or BA | b | \overleftrightarrow{AB} or \overleftrightarrow{BA} |
| 2. | | | line _____ or _____ | | _____ or _____ |
| 3. | | | line _____ or _____ | | _____ or _____ |
| 4. | | a | line segment GH or _____ | b | \overline{GH} or _____ |
| | | | | c | endpoints _____ and _____ |
| 5. | | | line segment JK or _____ | | \overline{JK} or _____ |
| | | | | | endpoints _____ and _____ |

Draw the following figures.

- | | | | | |
|----|-----------------|---|---------------------------|---|
| 6. | line LM | a | | b |
| | | | \overleftrightarrow{PQ} | |
| 7. | \overline{RS} | | | |
| | | | \overline{TU} | |