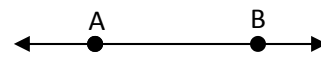


Lines, Line Segments, and Rays

Below are the definitions of lines, line segments and rays.

Line: A line is a set of points that extend in opposite directions without ending. Lines and line segments have length but no width or thickness.

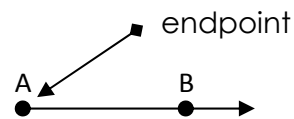
Line Model:



Line AB or \overleftrightarrow{AB}

Ray: A ray is part of a line that has one end point and extends in one direction without ending.

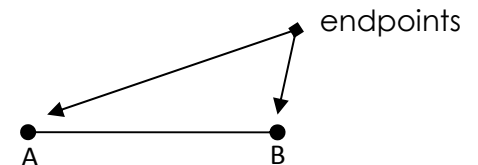
Ray Model:



Ray AB or \overrightarrow{AB}

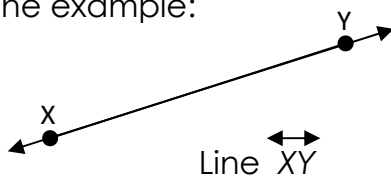
Line Segment: A line segment is part of a line between two endpoints.

Line Segment Model:



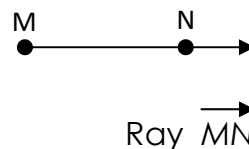
Segment AB or \overline{AB}

Line example:



This is a line because it extends in opposite directions as illustrated by the arrows.

Ray example:



This is a ray because it has one endpoint and extends in only one direction.

Line segment example:



This is a line segment as shown by the line between two endpoints (DE).