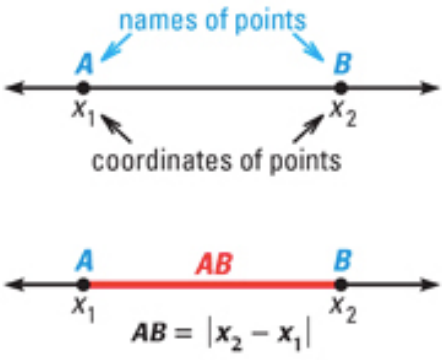


## Geometry

### Lesson 1.2 Outline

#### Important Vocabulary

- **postulate/axiom**- a rule that is accepted without proof
- **coordinate**- The real number that corresponds to a point is the coordinate of the point.
- **distance**- the absolute value of the difference between coordinates
- **congruent segments**- line segments that have the same length are called congruent segments

POSTULATE	<i>For Your Notebook</i>
<p><b>POSTULATE 1 Ruler Postulate</b></p> <p>The points on a line can be matched one to one with the real numbers. The real number that corresponds to a point is the <b>coordinate</b> of the point.</p> <p>The <b>distance</b> between points <math>A</math> and <math>B</math>, written as <math>AB</math>, is the absolute value of the difference of the coordinates of <math>A</math> and <math>B</math>.</p>	

**ADDING SEGMENT LENGTHS** When three points are collinear, you can say that one point is **between** the other two.



Point  $B$  is between points  $A$  and  $C$ .



Point  $E$  is not between points  $D$  and  $F$ .

POSTULATE	<i>For Your Notebook</i>
<p><b>POSTULATE 2 Segment Addition Postulate</b></p> <p>If <math>B</math> is between <math>A</math> and <math>C</math>, then <math>AB + BC = AC</math>.</p> <p>If <math>AB + BC = AC</math>, then <math>B</math> is between <math>A</math> and <math>C</math>.</p>	