

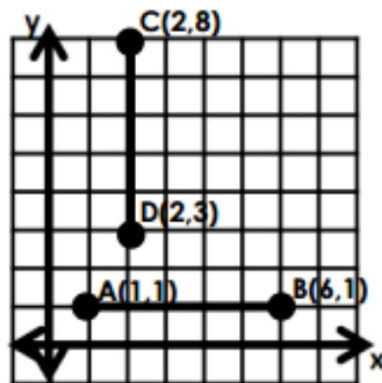
Example 1:

Use the diagram to determine whether \overline{AB} and \overline{CD} are congruent.

$$\overline{AB} = |1 - 6| = 5$$

$$\overline{CD} = |8 - 3| = 5$$

$$\overline{AB} \cong \overline{CD}$$



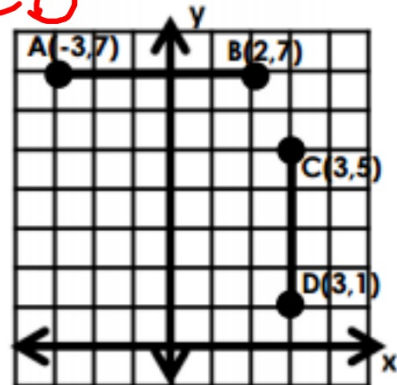
Example 2:

Use the diagram to determine whether \overline{AB} and \overline{CD} are congruent.

$$\overline{AB} = |-3 - 2| = 5$$

$$\overline{CD} = |5 - 1| = 4$$

$$\overline{AB} \neq \overline{CD}$$



Segment Addition Postulate (SAP)

If "B" is between "A" and "C",
then $AB + BC = AC$.

Practice:
Find BC.



$$\begin{aligned} \overline{AB} + \overline{BC} &= \overline{AC} \\ \cancel{18} + \overline{BC} &= \cancel{30} \\ -18 &\quad -18 \\ \boxed{\overline{BC} = 12} \end{aligned}$$

Segment Addition
Postulate
Substitution
Subtraction