

Speak Like A Mathematician:

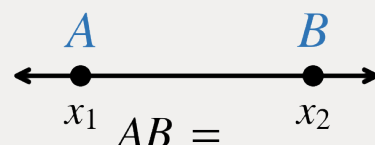
straightedge:

compass:

postulate (or axiom):

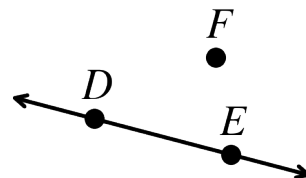
The Ruler Postulate

Every _____ on a line can be paired with a _____ number, and the _____ between any two points is the _____ value of the _____ of their coordinates.



congruent segments:

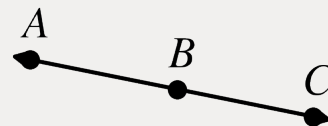
between:



Segment Addition Postulate

If B is between A and C , then _____.

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



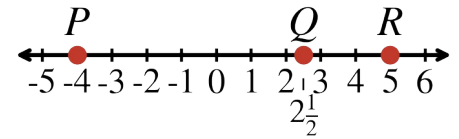
Example 1 - Find Each Length from Image

Use the number line to find each length.

a) PQ

b) QR

c) PR



Example 2 - Find Each Length from Description

a) Q is between P and R , $PR = 9$, and $PQ = 4.5$. Find QR .

b) G is between F and H , $FG = 21$, and $GH = 13$. Find FH .

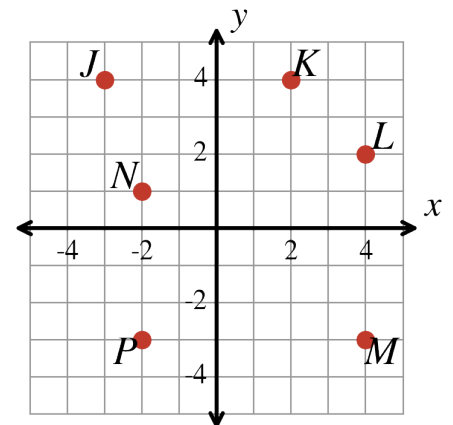
Example 3 - Identify Congruent Segments from Graph

True or False.

a) $JK \cong LM$

b) $JK \cong NP$

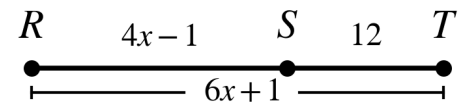
c) $LM \cong NP$



Example 4 – Segment Addition Postulate

a) Find x .

S is between R and T



b) Find RT .

Example 5 – Real Life Application

Tampa, Sarasota, and Fort Myers lie approximately in a straight line along Florida's Gulf Coast. The distance from Tampa to Fort Myers is 135 miles, and the distance from Sarasota to Fort Myers is 75 miles. Find the distance from Tampa to Sarasota.

