

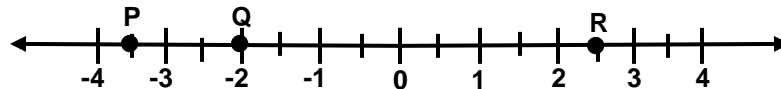
TOPIC 1-4: SEGMENTS AND DISTANCE

Term	Definition	Sketch
Line Segment	Part of a line consisting of two endpoints and all the points between them.	
Notation	Name of a Segment: Length of a Segment:	

To measure the **LENGTH** of a segment, you can use a number line to count the **DISTANCE** between the two endpoints.

EXAMPLE 1 Find the distance between -2 and 6 on a number line.

EXAMPLE 2 Find PQ , QR and PR on the number line shown below.



$PQ =$ _____ | $QR =$ _____ | $PR =$ _____

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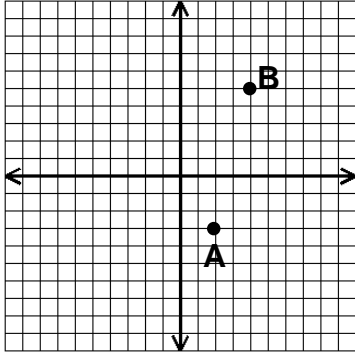
When a segment is drawn on a coordinate plane, you can find its **LENGTH** by using the **DISTANCE** formula:

$$d =$$

EXAMPLE 6 Find the distance between (2, 1) and (5, 7).

EXAMPLE 7 Find the distance between (-4, -1) and (-5, 4).

EXAMPLE 8 Find AB.



EXAMPLE 9 Find CD.

