



**Segment Addition Postulate:**

If  $Q$  is between  $P$  and  $R$ , then  $PQ + QR = PR$ .

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**EXAMPLE 1:** If  $B$  is between  $A$  and  $C$  and  $AB = 4$  and  $BC = 5$ , then  
 $AC =$  \_\_\_\_\_.

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**EXAMPLE 2:** If  $AB = x$ ,  $BC = x + 6$  and  $AC = 24$ , then find  $AB$  and  
 $BC$ .

$AB =$  \_\_\_\_\_;  $BC =$  \_\_\_\_\_

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**EXAMPLE 3:** Find  $LM$  if  $L$  is between  $N$  and  $M$ ,  $NL = 6x - 5$ ,  
 $LM = 2x + 3$  and  $NM = 30$ .

$LM =$  \_\_\_\_\_

Notes 1.2 (Continued)

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

$$d =$$

**EXAMPLE 1:** Find the distance between  $(2, -1)$  and  $(-2, -1)$ .

**EXAMPLE 2:** Find the distance between  $(5, -2)$  and  $(-2, -3)$ .

**EXAMPLE 3:** Find  $AB$ .

