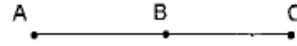


**Given:  $AB = BC$**   
**Prove:  $AC = 2BC$**



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$$AB = BC$$

**Given**

$$AC = AB + BC$$

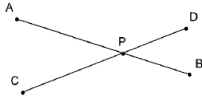
**Segment Addition  
Postulate**

$$AC = BC + BC$$

**Substitution**

$$AC = 2BC$$

**Substitution**

<p><del>17</del> 5  <del>1</del> 11  <del>9</del> 15  13  <del>18</del>  <del>4</del>  2</p>	<p>Given: <math>\overline{AP} \cong \overline{CP}</math>  <math>\overline{BP} \cong \overline{DP}</math>          Prove: <math>\overline{AB} \cong \overline{CD}</math></p> <hr/> <p><math>\overline{AP} \cong \overline{CP}</math>          Given  <math>\overline{BP} \cong \overline{DP}</math>          Given  <math>AP = CP</math>          Definition of Congruent Segments  <math>BP = DP</math>          Definition of Congruent Segments  <math>AP + PB = AB</math>          Segment Addition Postulate  <math>CP + DP = AB</math>          Substitution  <math>CP + PD = CD</math>          Segment Addition Postulate  <math>AB = CD</math>          Transitive Property  <math>\overline{AB} \cong \overline{CD}</math>          Definition of Congruent Segments</p>		<p>1 2  <del>3</del> <del>4</del>  5 6  7 <del>8</del>  <del>9</del> 10  <del>11</del> <del>12</del>  <del>13</del> <del>14</del>  15 16  <del>17</del> 18  19</p>
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