

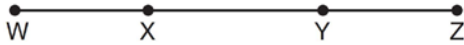
**G.G.27: Line Proofs: Write a proof arguing from a given hypothesis to a given conclusion**

- 1 In the diagram below of  $\overline{ABCD}$ ,  $\overline{AC} \cong \overline{BD}$ .



Using this information, it could be proven that

- 1)  $BC = AB$
  - 2)  $AB = CD$
  - 3)  $AD - BC = CD$
  - 4)  $AB + CD = AD$
- 2 In the diagram of  $\overline{WXYZ}$  below,  $\overline{WY} \cong \overline{XZ}$ .



Which reasons can be used to prove  $\overline{WX} \cong \overline{YZ}$ ?

- 1) reflexive property and addition postulate
- 2) reflexive property and subtraction postulate
- 3) transitive property and addition postulate
- 4) transitive property and subtraction postulate

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**Answer Section**

1 ANS: 2

$$AC = BD$$

$$AC - BC = BD - BC$$

$$AB = CD$$

REF: 061206ge

2 ANS: 2

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