Regents Exam Questions G.CO.C.9: Line and Angle Proofs www.jmap.org

015

Name:

G.CO.C.9: Line and Angle Proofs

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

A B C D

Using this information, it could be proven that

- 1) BC = AB3) AD BC = CD2) AB = CD4) 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 3)
- 2) reflexive property and subtraction postulate

transitive property and addition postulate transitive property and subtraction postulate

3 When writing a geometric proof, which angle relationship could be used alone to justify that two angles are congruent?

4)

- 1) supplementary angles
- 2) linear pair of angles

- 3) adjacent angles
- 4) vertical angles

G.CO.C.9: Line and Angle Proofs Answer Section

1 ANS: 2 AC = BD AC - BC = BD - BC AB = CDREF: 061206ge

2	ANS:	2	REF:	061427ge
3	ANS:	4	REF:	011108ge