

A **Problem Set A** 1 Given: $\overline{AB} \cong \overline{DC}$. $\overline{AC} \cong \overline{DB}$ Prove: $\triangle ABC \cong \triangle DCB$ \frown B \mathcal{B} S 1. AB = DC 1. Given 2. AC = DB 2. Given 3. BC ZCB 3. Ref ∆ABC ° ADCB 4. SSS (123) 2 Given: ∠FGH is a right ∠. \angle JHG is a right \angle . $\overline{FG} \cong \overline{JH}$ Prove: $\triangle FGH \cong \triangle JHG$ 11 H <u>S</u> R SI. FG YJH GIVEN 1. Q. GIVEN 2. ZEGH&LJHG MLS 3. Zt∠s ⇒≌∠s (2) A 3. ZFGH Z LJHG $S \rightarrow H = HG$ 4. REFLEXIVE J. AFGH = AJHG 5. SAS (134)