

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)