4 - 5 ASA and AAS



PROOF - SAMPLE(ASA) Given: S is the midpoint of \overline{QT} . $\overline{QR} \parallel \overline{TU}$ **Prove:** $\triangle QSR \cong \triangle TSU$ 0 **STATEMENTS** REASONS 1) S is the midpoint of QT; QR || TU 1) Given 2) QS ≅ ST 2) Def. of Midpoint 3) Alt. Int. Angles 3)∠Q ≅ ∠T 4) ∠RSQ ≅ ∠ UST 4) Vertical Angle **5)** \triangle **QSR** \cong \triangle **TSU** 5) ASA



PROOF - SAMPLE(AAS)		
	Given: $\overline{DE} \parallel \overline{FG}$ $\angle E \cong \angle G$	
	Prove: $\triangle DFG \cong \triangle FDE$	$G \longrightarrow F$
	STATEMENTS	REASONS
	1) DE FG ∠E ≅ ∠G	1) Given
	2) ∠EDF _≅ ∠GFD	2) Alt. Int. Angles
	3) DF _≅ DF	3) Reflexive Prop.
	4) △DFG _≅ △FDE	4) AAS