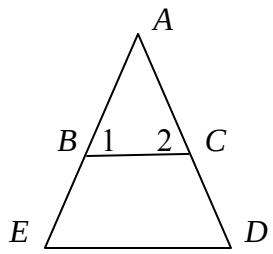
Geometry HW #_____ Name_____
Worksheet 4B
Section 4-4 Period____Col._____

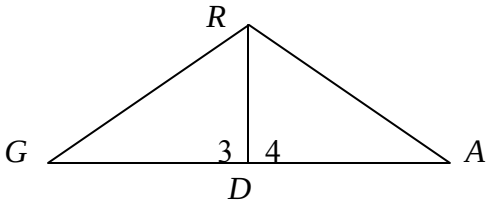
Complete each proof.

1. Given: $\overline{BC} \parallel \overline{ED}$, $\angle 1 \cong \angle 2$
   Prove: ΔAED is isosceles



STATEMENTS	REASONS
1. $\overline{BC} \parallel \overline{ED}$, $\angle 1 \cong \angle 2$	1.
2. $\angle 1 \cong \angle E$	2.
3. $\angle 2 \cong \angle E$	3.
4. $\angle 2 \cong \angle D$	4.
5. $\angle E \cong \angle D$	5.
6. $\overline{AD} \cong \overline{AE}$	6.
7. ΔAED is isosceles	7.

2. Given: $\overline{RD} \perp \overline{GA}$, D is midpoint of $\overline{GA}$
   Prove: ΔGRA is isosceles



STATEMENTS	REASONS
1. $\overline{RD} \perp \overline{GA}$	1.
2. $\angle 3$ and $\angle 4$ are right angles	2.
3. $\angle 3 \cong \angle 4$	3.
4. D is midpoint of $\overline{GA}$	4.
5.	5. midpoint makes ≅ segments
6.	6.
7. $\Delta GRD \cong \Delta$ _____	7.
8.	8. CPCTC
9.	9.