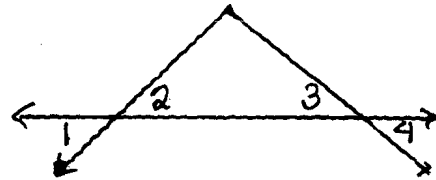


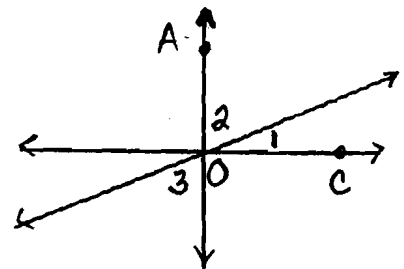
Complete each proof.

1. Given:  $\angle 2 \cong \angle 3$   
 Prove:  $\angle 1 \cong \angle 4$



STATEMENTS	REASONS
1. $\angle 1 \cong \angle 2$	1.
2. $\angle 2 \cong \angle 3$	2.
3. $\angle 1 \cong \angle 3$	3.
4. $\angle 3 \cong \angle 4$	4.
5. $\angle 1 \cong \angle 4$	5.

2. Given:  $\overleftrightarrow{AO} \perp \overleftrightarrow{CO}$   
 Prove:  $\angle 1$  and  $\angle 3$  are complementary  $\angle$ s



STATEMENTS	REASONS
1. $\overleftrightarrow{AO} \perp \overleftrightarrow{CO}$	1.
2. $\angle AOC$ is a right angle	2.
3. $m\angle AOC = 90$	3.
4. $m\angle AOC = m\angle 1 + m\angle 2$	4.
5. $m\angle 1 + m\angle 2 = 90$	5.
6. $m\angle 2 = m\angle 3$	6.
7. $m\angle 1 + m\angle 3 = 90$	7.
8.	8.