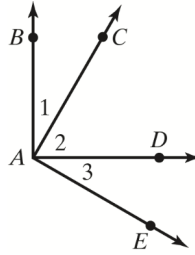


1. Write a two-column proof.

Given: $\overrightarrow{AB} \perp \overrightarrow{AD}$ and $\overrightarrow{AC} \perp \overrightarrow{AE}$

Prove: $\angle 1 \cong \angle 3$

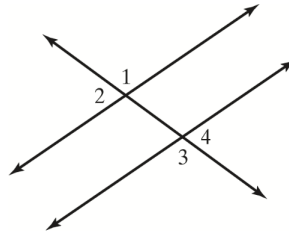


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2. Write a two-column proof.

Given: $\angle 1 \cong \angle 3$

Prove: $\angle 2 \cong \angle 4$

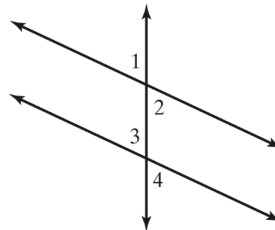


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3. Write a two-column proof.

Given: $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$

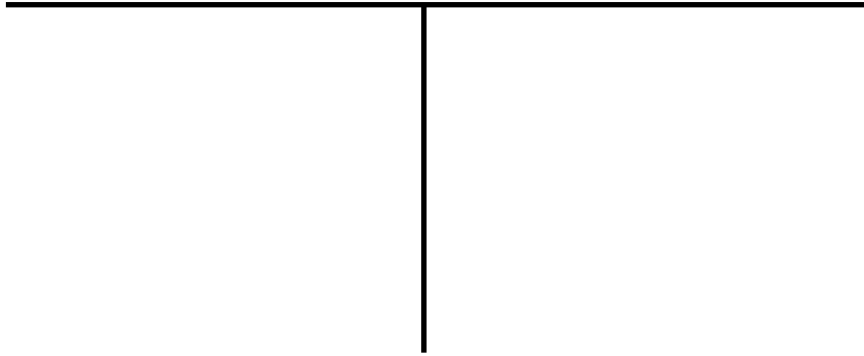
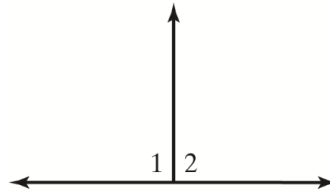


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4. Write a proof of the Equal Supplementary Angles Theorem in paragraph form.

Given: $m\angle 1 = m\angle 2$ and $m\angle 1 + m\angle 2 = 180^\circ$

Prove: $\angle 1$ and $\angle 2$ are right angles.



5. Find the value of x .

