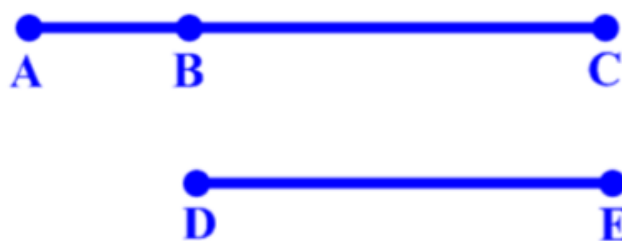


**1. Write a paragraph proof.**

**Given:**  $\overline{BC} \cong \overline{DE}$

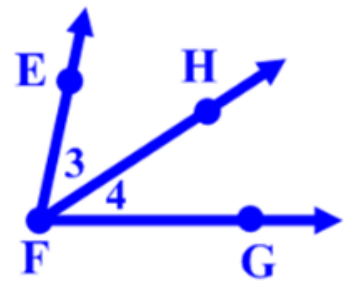
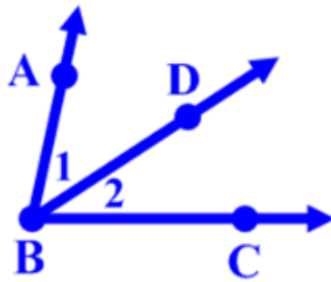
**Prove:**  $AC = AB + DE$



**2. Write a paragraph proof.**

**Given:**  $\angle ABC \cong \angle EFG$   
 $\angle 1 \cong \angle 3$

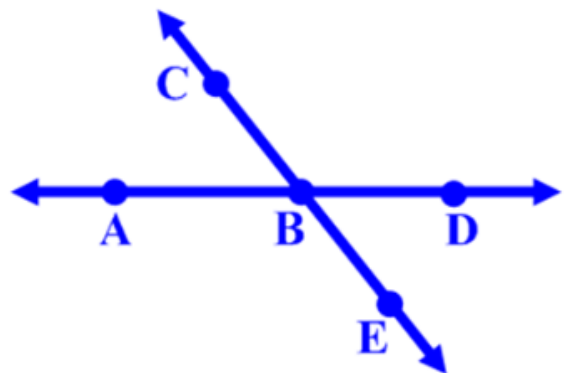
**Prove:**  $\angle 2 \cong \angle 4$



### 3. Write a paragraph proof.

**Given:**  $\angle ABC$  and  $\angle CBD$  form  
a linear pair  
 $\angle CBD$  and  $\angle DBE$  form  
a linear pair

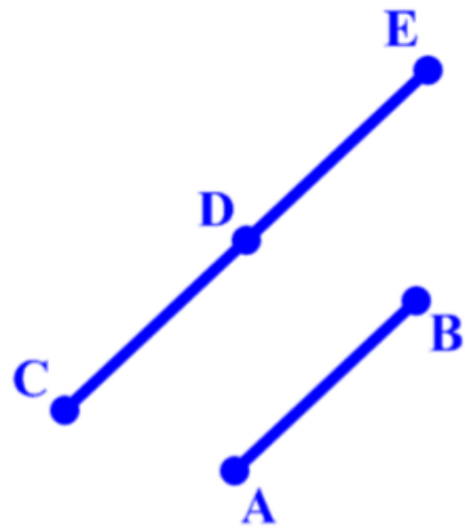
**Prove:**  $\angle ABC \cong \angle DBE$



**4. Write a paragraph proof.**

**Given:**  $AB = CD$ ;  $AB = DE$

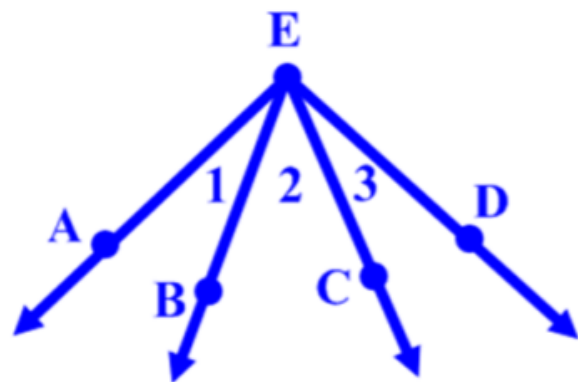
**Prove:** Pt. D is the midpt. of CE



**5. Write a paragraph proof.**

**Given:**  $\overrightarrow{EA} \perp \overrightarrow{EC}$ ;  $\overrightarrow{EB} \perp \overrightarrow{ED}$

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



**6. Write a paragraph proof.**

**Given:**  $\angle ABC$  is a rt.  $\angle$ ;  
 $\angle 2 \cong \angle E$

**Prove:**  $\angle 1$  and  $\angle E$  are  
comp.  $\angle$ 's

