

Period:

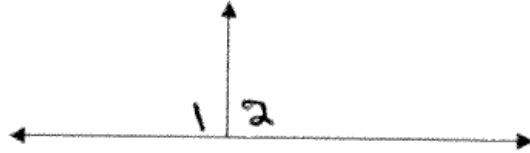
HW #2-9

1. Write a two-column proof.

Given: $\angle 1 \cong \angle 2$

$$m\angle 1 = 90^\circ$$

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

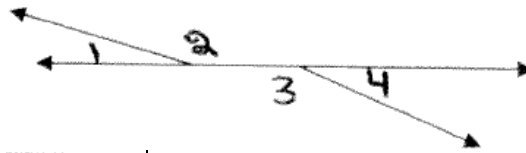


Statements	Reasons

2. Write a two-column proof.

Given: $\angle 2$ and $\angle 4$ are supplementary

Prove: $m\angle 2 = m\angle 3$



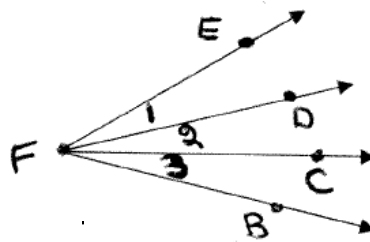
Statements	Reasons

3. Write a two-column proof.

Given: $\overrightarrow{FD}$ bisects $\angle EFC$

$\overrightarrow{FC}$ bisects $\angle DFB$

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

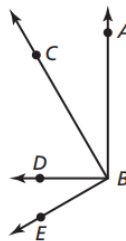


Statements	Reasons

4. Write a two-column proof.

Given: $\angle ABD$ and $\angle CBE$ are right angles

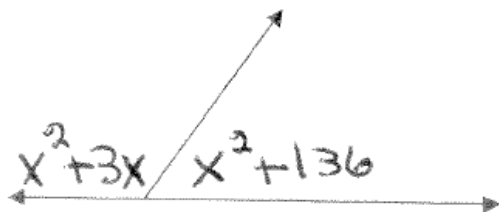
Prove: $\angle ABC \cong \angle DBE$



Statements

Reasons

5. Find the value of x . Don't forget to check for extraneous solutions!



6. Find the value of x . Don't forget to check for extraneous solutions!

